

GENERAL DEMOLITION NOTES

- ELECTRICAL DEMOLITION TO BE SUPERVISED BY LICENSED ELECTRICAL CONTRACTOR. EACH CIRCUIT TO BE VERIFIED "COLD" AND DISCONNECTED FROM ELECTRICAL SERVICE PRIOR TO COMMENCING REMOVAL.
- 2. REMOVE EXISTING ELECTRICAL EQUIPMENT & MATERIALS AS REQUIRED TO ACCOMMODATE ARCHITECTURAL WORK AND AS SPECIFICALLY NOTED ON THE DEMOLITION DRAWINGS.
- 3. ALL MATERIALS BEING REMOVED SHALL BE HANDLED IN A MANNER COMPLYING WITH ALL PERTINENT LAWS, CODES AND ENVIRONMENTAL REGULATIONS.
- 4. WHERE ELECTRICAL EQUIPMENT & DEVICES ARE BEING REMOVED, COORDINATE AND FIELD VERIFY IF BRANCH CIRCUIT FEEDS THROUGH TO EQUIPMENT/DEVICES TO REMAIN. BRANCH CIRCUITS SHALL BE SPLICED OR RELOCATED TO MAINTAIN CONTINUATION OF SERVICES.
- 5. WHERE EXISTING DEVICES ARE REMOVED & NO NEW DEVICES ARE INSTALLED IN THE SAME LOCATION, REMOVE ALL WIRING FROM BOX & PROVIDE PROPERLY SIZED BLANK COVER
- 6. CONTRACTOR SHALL REMOVE ALL FLUORESCENT LIGHT FIXTURE BALLASTS & IDENTIFY THOSE CONTAINING PCB'S, ON ALL REMOVED LIGHTING FIXTURES.
- 7. REFER TO ABATEMENT SCOPE FOR HANDLING OF MATERIALS. ALL REMOVED COMPONENTS SHALL BE LEGALLY DISPOSED OF BY CONTRACTOR UNLESS SPECIFICALLY NOTED
- 8. ELECTRICAL DEMOLITION SCOPE SHALL BE 100% COMPLETE INCLUDING ALL EQUIPMENT, WIRE, CABLE, DEVICES, AND EXPOSED CONDUIT & BOXES, UNLESS THE ELECTRICAL PANELS OR DEVICES INDICATED IN THIS ELECTRICAL DEMOLITION PLAN TO REMAIN. CONDUIT & BOXES RECESSED IN EXISTING WALLS THAT REMAIN CAN NOT BE ABANDONED IN PLACE. REMOVE ALL ASSOCIATED WIRE & CABLES.

 COORDINATE WITH OWNER, ELECTRICAL ENGINEER OR ARCHITECTS.
- 9. COORDINATE ALSO WITH MECHANICAL AND PLUMBING DEMO PLANS FOR EQUIPMENT BEING REMOVED. DISCONNECT POWER AND REMOVE CONDUIT AND WIRING BACK TO PANEL.
- 10. THE SITE SHALL BE BROOM-CLEANED AT THE END OF EACH WORKDAY.

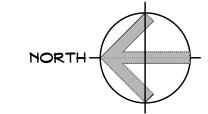
PLAN PWR DEMO NOTES

- 1 REMOVE AND DISPOSE ALL EXISTING ELECTRICAL LIGHTING FIXTURES, LIGHTING AND POWER DEVICES, (AS SWITCHES, POWER OUTLETS, DATA OUTLETS, ELECTRICAL CLOCK ETC.) AND FIRE ALARM DEVICES (SMOKE DETECTORS, HORN/STROBES) AND ASSOCIATED BRANCH CIRCUITS, WIRING OR CONDUITS, IN THIS SPACE UNLESS SPECIFICALLY NOTED OTHERWISE. COORDINATE IN FIELD ALL MECHANICAL AND PLUMBING FIXTURES TO BE REMOVED WITH DIV. 22 AND 23.
- 2 REMOVE AND DISPOSE EXISTING ELECTRICAL PANELS AND ASSOCIATED WIRES AND CONDUITS IN THE AREA. EC SHALL BE RESPONSIBLE FOR PHASING OF THE PROJECT WHEN REMOVING AND DISPOSE ALL ELECTRICAL PANEL AND OTHER ELECTRICAL DEVICES, AS WELL AS TEMPORARY FEEDER IF NECESSARY.

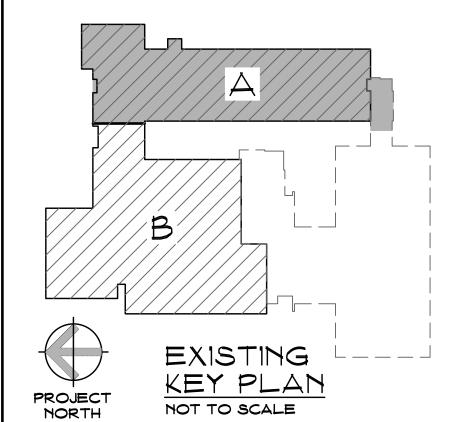
REFER TO DRAWING 'E300' FOR ELECTRICAL SYMBOL LEGEND.

COORDINATE DEMOLITION WITH ARCHITECTURAL DRAWINGS, PLUMBING, MECHANICAL, ELECTRICAL POWER AND ONE—LINE DIAGRAM E301.

ELECTRICAL POWER COMPONENTS SHOWN ON THE DEMOLITION DRAWINGS AND SCHEDULES, AND THE ASSOCIATED CONDUIT, WIRE AND BOXES, ARE TO BE REMOVED AND DISPOSED OF UNLESS SPECIFICALLY NOTED OTHERWISE.
ALL SMART BOARDS AND PROJECTORS MUST BE RETURN TO THE OWNER.



1ST FLOOR ELECTRICAL DEMO PLAN, AREA "A" (EDOC SCALE: 1/8" = 1'-0"



Expansion and Renovate as New Project - PHASE 1 of 3

Ellington, Connecticut 06029

Crystal Lake Elementary School
284 Sandy Beach Road



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1st FLOOR ELECTRICAL

Scale:

1/8' = 1'-0'

DEMO PLAN, AREA "A"

State Project Number: 048-0058 EA/RR/PS

DUNE 18, 2013

Scale:

1/8' = 1'-0'

Drawn By:

MS-ELE ENG

Project Number:

42440

Date: Drawing Number:

JUNE 18, 2013

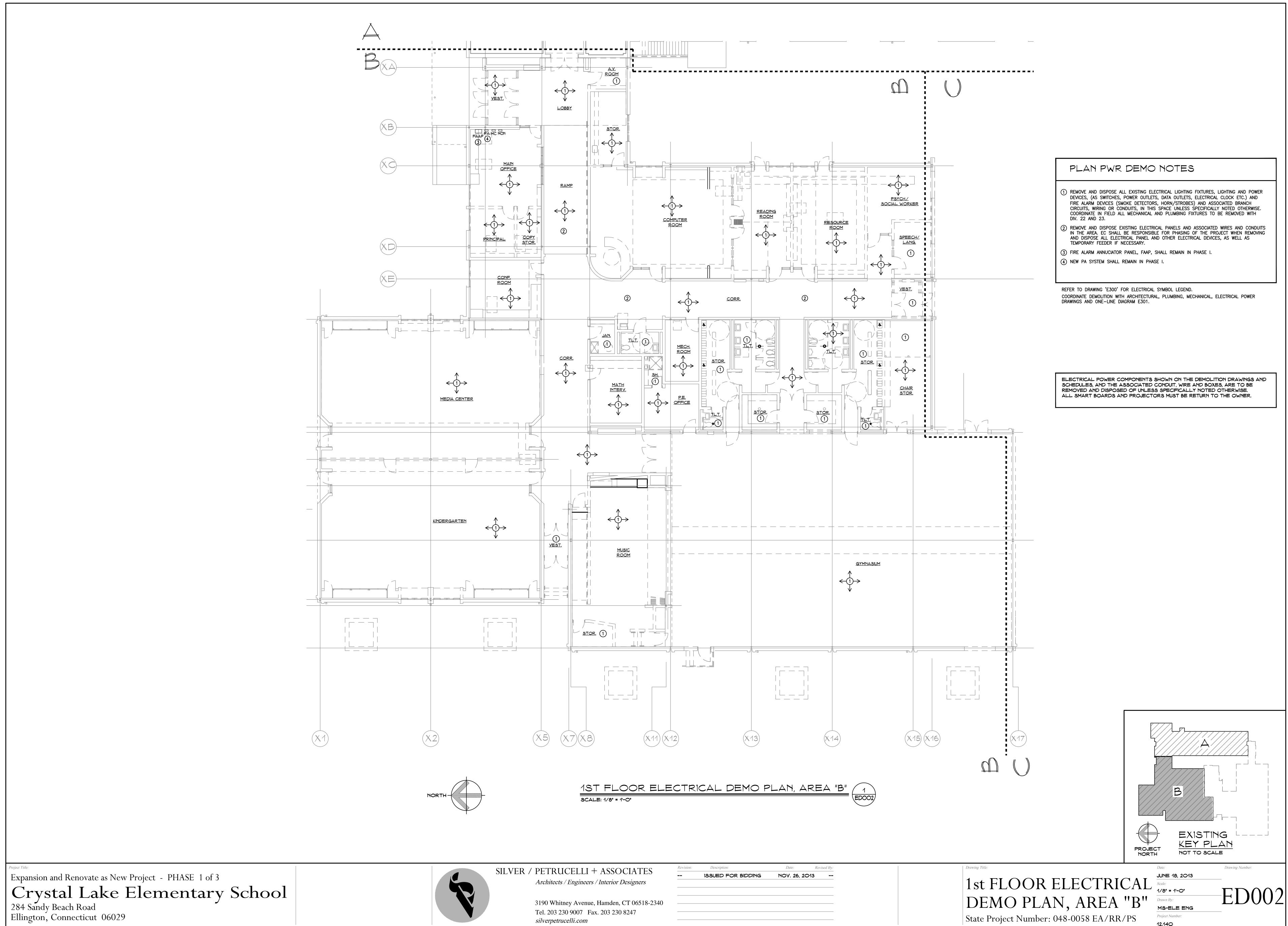
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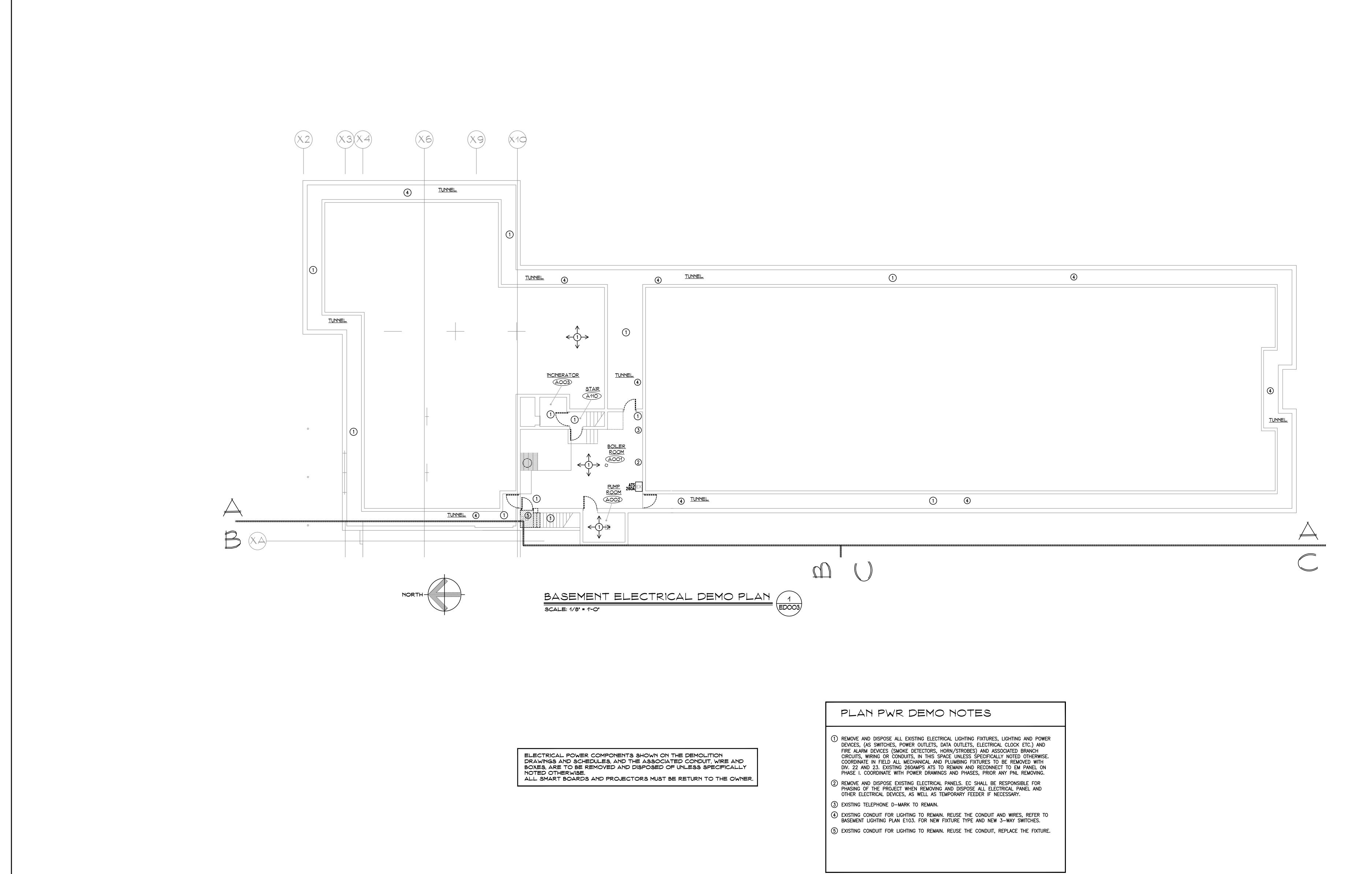
1/8" = 1'-0"

Drawn By:

MS-ELE ENG



Expansion and Renovate as New Project - PHASE 1 of 3



REFER TO DRAWING 'E300' FOR ELECTRICAL SYMBOL LEGEND. REFER TO POWER DRAWINGS: E200, E201, E202 FOR PHASING AND OTHER DETAILS.

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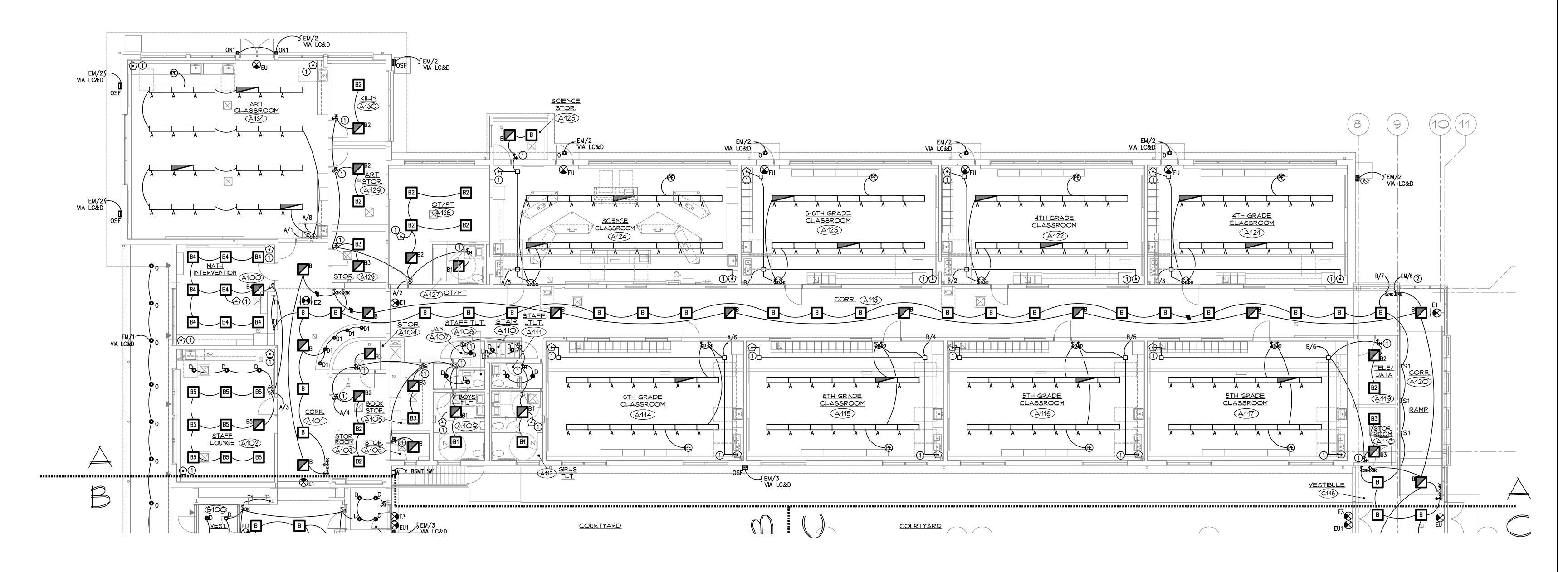
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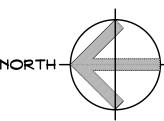
BASEMENT ELECTRIC. DEMO PLAN State Project Number: 048-0058 EA/RR/PS

Drawing Number: JUNE 18, 2013 -ED003 1/8" = 1'-0" Drawn By: MS-ELE ENG 12.140



ISSUED FOR BIDDING

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1ST FLOOR LIGHTING PLAN, AREA "A", SCALE: 1/8" = 1'-0"

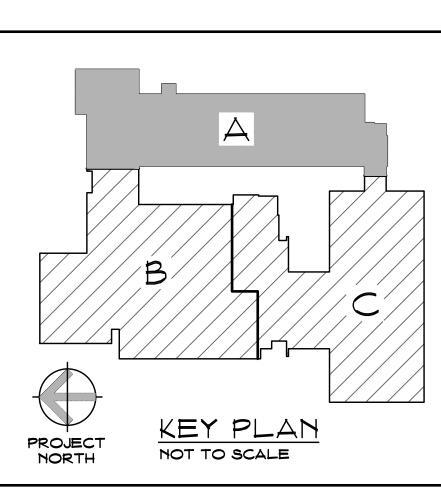
PLAN LIGHTING NOTES

- (1) PROVIDE MOTION DETECTOR SWITCH TO OPERATE LIGHT FIXTURE(S) WITHIN THE INTENDED ROOM. COORDINATE WITH OWNER FOR LENGTH OF TIME DELAY SETTING. SEE DETAILS ON
- ② ALL CORRIDOR LIGHTS WITH SHADING SHALL BE CONNECTED TO THE EMERGENCY PANEL VIA A UL924 RELAY.

REFER TO DRAWING 'E300' FOR ELECTRICAL SYMBOL LEGEND AND LIGHTING SCHEDULE NOTES.

ELECTRICAL CONTRACTOR SHALL PROVIDE ON EACH SWITCH AREA AN UL924 EMERGENCY LIGHTING RELAY (WIRED TO AN EMERGENCY CIRCUIT FROM THE EMERGENCY PANEL 'EM' LOCATED IN THE BASEMENT ROOM A001), TO CONTROL SHADED FIXTURES. REFER TO DETAILS ON DRAWING 'E305'.

<u>BID ALTERNATE:</u> ELIMINATE DIMMING SWITCHES. REFER TO DETAIL DRAWING 'E305' FOR DETAIL SCHEMATICS.



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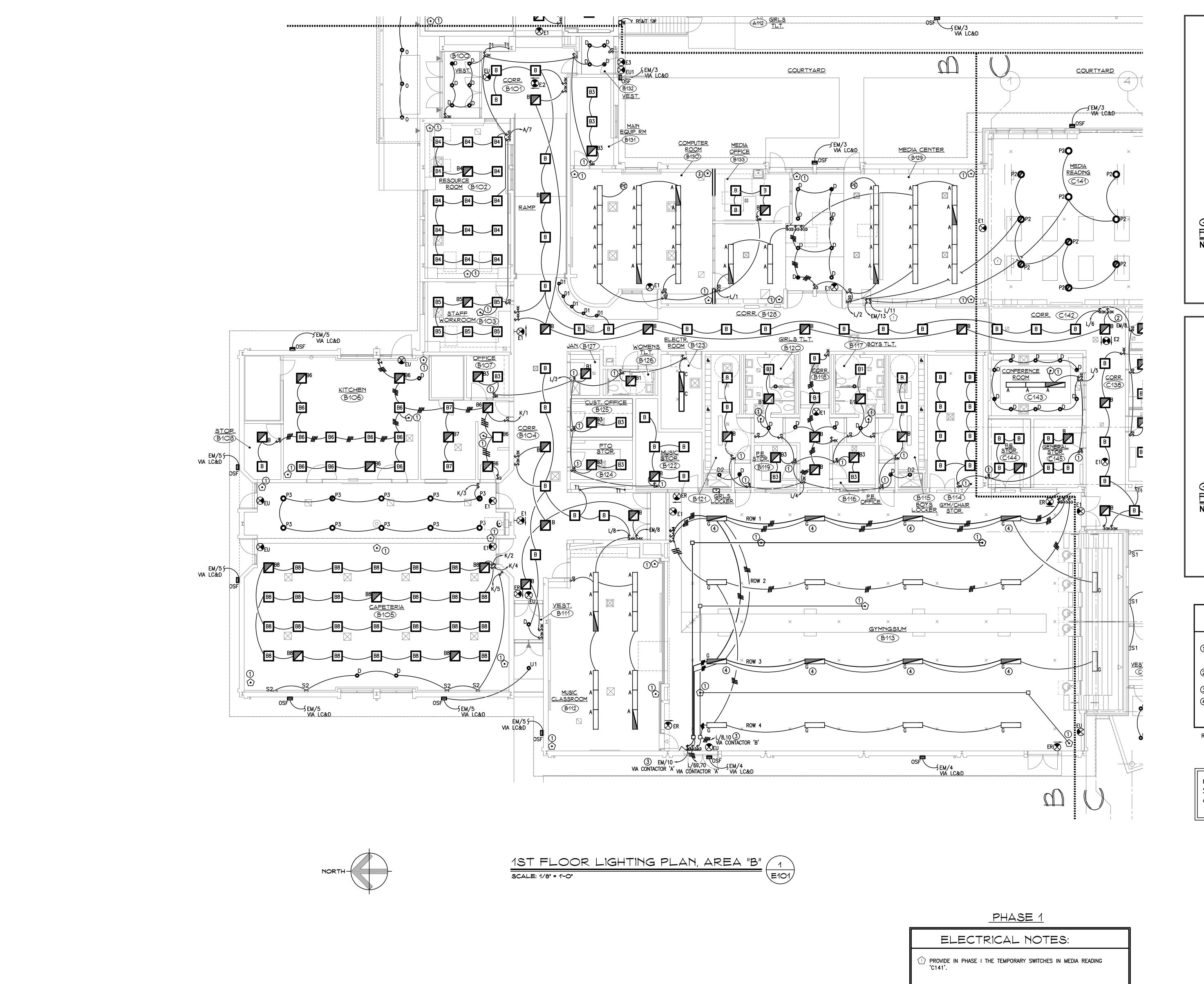


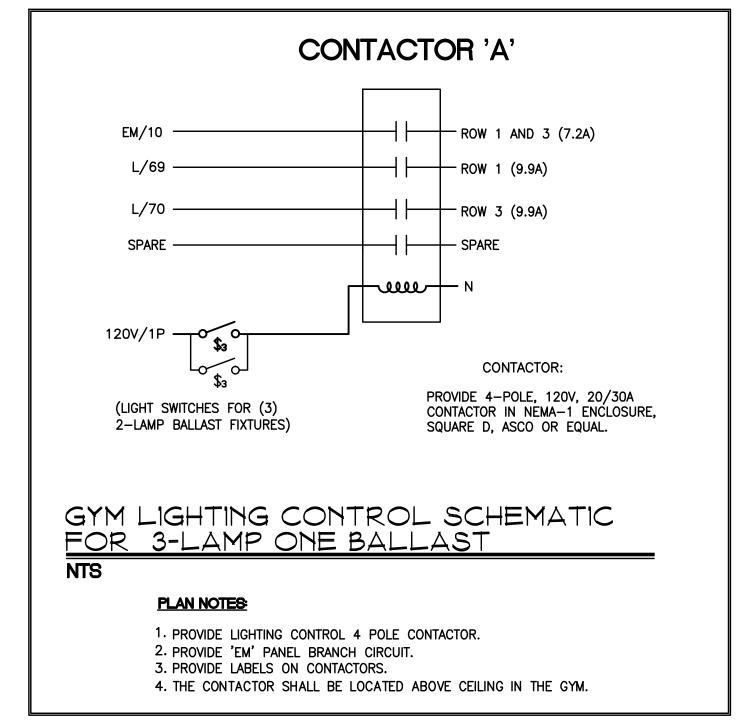
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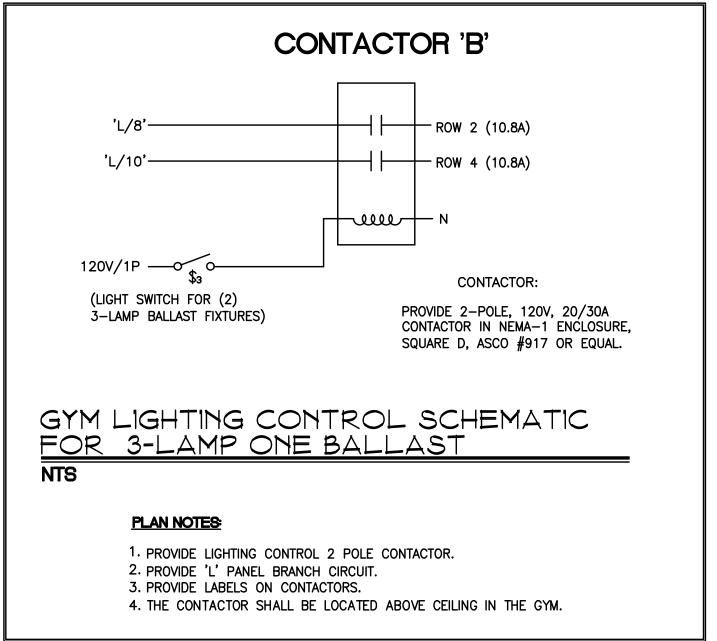
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1ST FLOOR LIGHTING PLAN, AREA "A" State Project Number: 048-0058 EA/RR/PS

Drawing Number: JUNE 18, 2013 E100 1/8" = 1'-0" Drawn By: MS-ELE ENG Project Number: 12.140







PLAN LIGHTING NOTES

- 1 PROVIDE MOTION DETECTOR SWITCH TO OPERATE LIGHT FIXTURE(S) WITHIN THE INTENDED ROOM. COORDINATE WITH OWNER FOR LENGTH OF TIME DELAY SETTING. SEE DETAILS ON DRAWING 'E305'.
- ② ALL CORRIDOR LIGHTS WITH SHADING SHALL BE CONNECTED TO THE EMERGENCY PANEL VIA A UL924 RELAY.
- (3) FOLLOW THE SKETCHES FOR INTERCONNECTIONS WITH THE CONTACTORS ON THIS DRAWING.

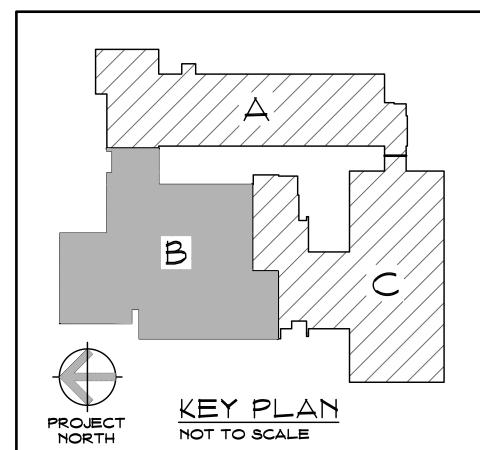
 (4) PROVIDE ALL EM SHADED FIXTURES IN THE GYM AREA WITH 3 (2) LAMPS BALLAST.

 (5) LAMPS BALLAST. ON FACILIES IN THE GYM AREA WITH 3 (2) LAMPS BALLAST.
- 4 PROVIDE ALL EM SHADED FIXTURES IN THE GYM AREA WITH 3 (2) LAMPS BALLAST. CONNECT ONE (2) LAMPS BALLAST ON EACH EM FIXTURE TO THE EM CIRCUIT AND REST OF 2 BALLASTS TO NORMAL POWER.

REFER TO DRAWING 'E300' FOR ELECTRICAL SYMBOL LEGEND.

ELECTRICAL CONTRACTOR SHALL PROVIDE ON EACH SWITCH AREA AN UL924 EMERGENCY LIGHTING RELAY (WIRED TO AN EMERGENCY CIRCUIT FROM THE EMERGENCY PANEL 'EM' LOCATED IN THE BASEMENT ROOM AOO1), TO CONTROL SHADED FIXTURES. REFER TO DETAILS ON DRAWING 'E305'.

<u>BID ALTERNATE:</u> ELIMINATE DIMMING SWITCHES.REFER TO DETAIL DRAWING 'E305' FOR DETAIL SCHEMATICS.



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Description:
Date: Revised By:

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NOV. 26, 2013
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1ST FLOOR LIGHTING
PLAN, AREA "B"
State Project Number: 048-0058 EA/RR/PS

Date:

JUNE 18, 2013

Scale:

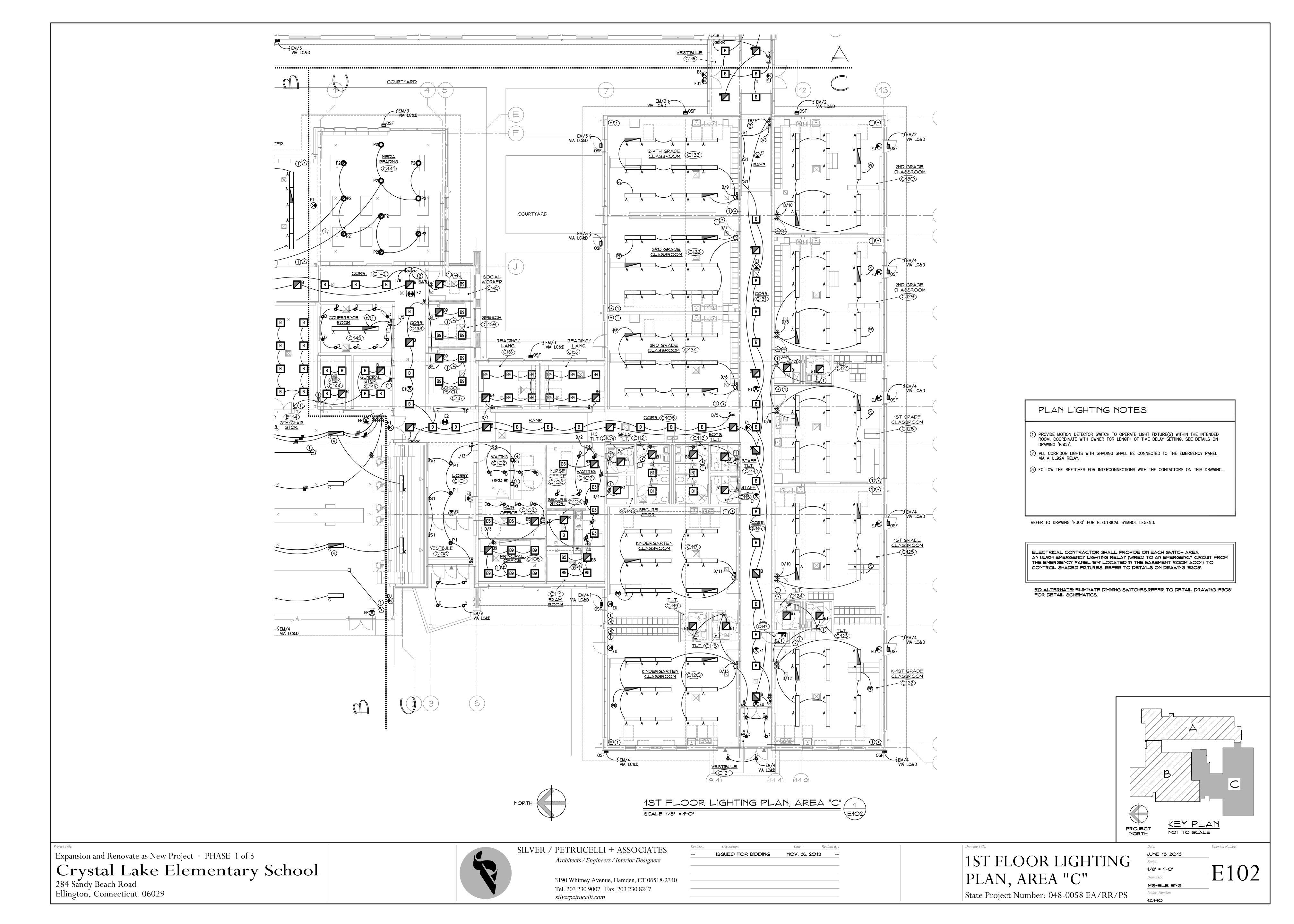
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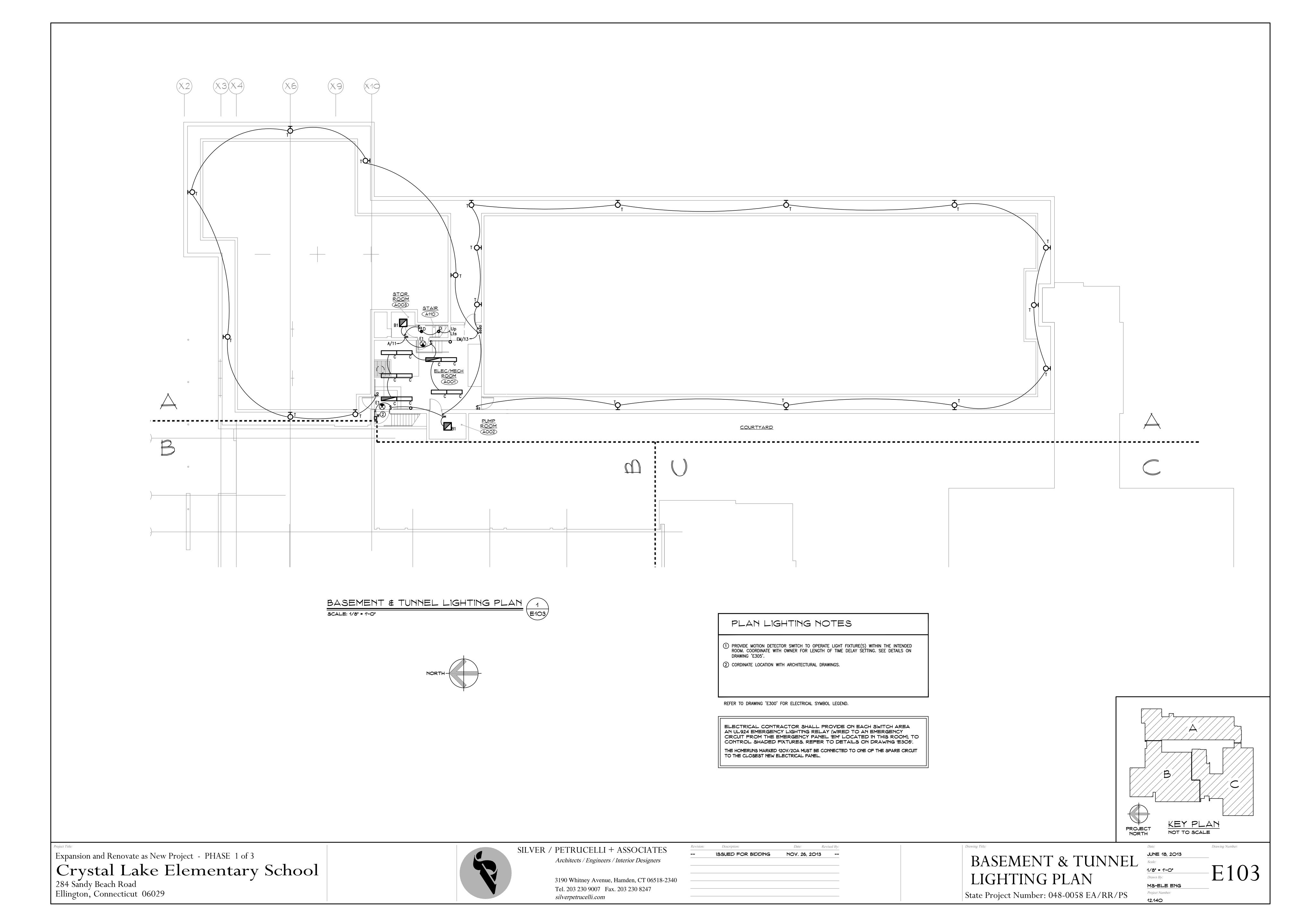
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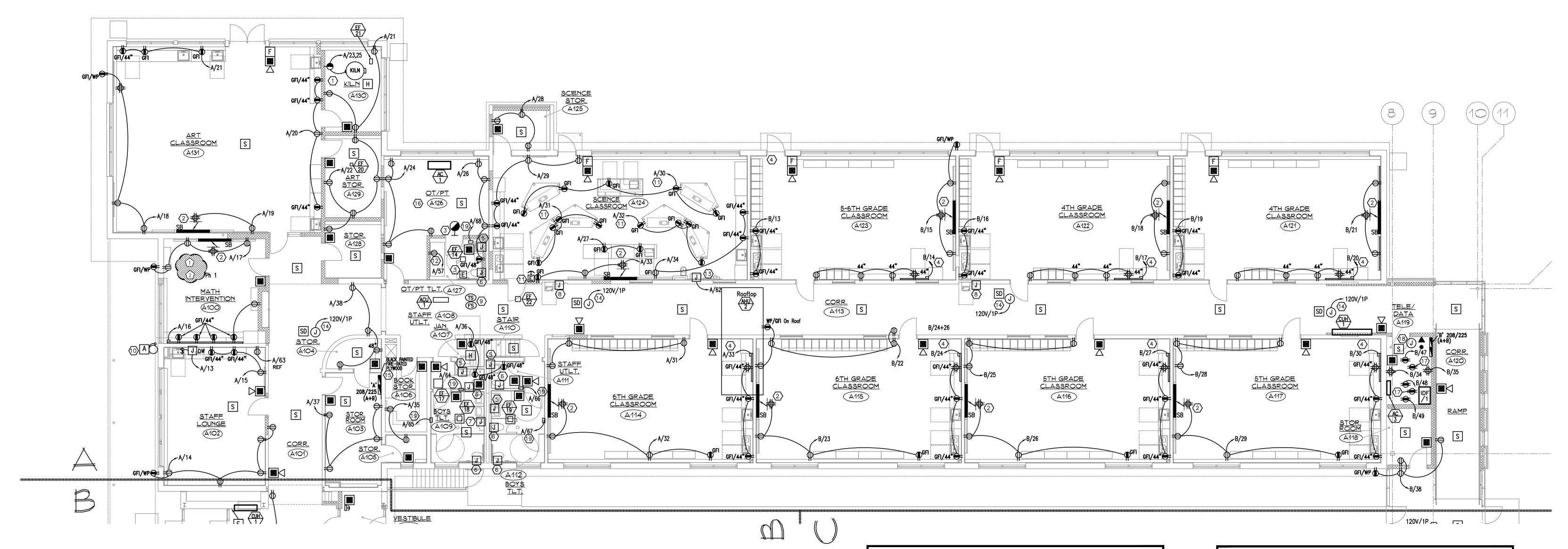
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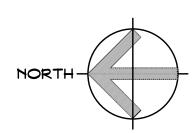
Project Number:

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1ST FLOOR POWER PLAN, AREA "A" SCALE: 1/8" = 1'-0"

PHASE 1

ELECTRICAL NOTES: PART A

- PROVIDE IN PHASE I THE TEMPORARY FEEDER FROM EXISTING MDP, ELECTRICAL ROOM, TO NEW AREA 'C' PANEL 'D', ROOM C128. ELECTRICAL CONTRACTOR SHALL PROVIDE FEEDER PER ORIGINAL DESIGN DRAWINGS, ON PHASE II, FROM NEW PANEL 'SDP' TO PANEL 'D'. FEEDER SIZE: 225AMPS, 4 #4/0 & 1 #4 GND.
- FIRE ALARM PANEL (SIMPLEX), EXISTING AND LOCATED IN ELECTRICAL ROOM SHALL REMAIN TEMPORARILY. NEW FACP SHALL BE INSTALLED AT THE START OF CONSTRUCTION SO THAT EACH AREA CAN BE SWAPPED OVER. PROVIDE A TEMPORARY CONNECTION BETWEEN THE PANELS SO THAT EITHER WILL ACTIVATE THE OTHER. RESET OF BOTH PANELS WILL BE REQUIRED ON

POWER PLAN NOTES

- 1 PROVIDE NEW RECEPTACLE NEMA '6-50R', 2POLE, 3WIRE, GROUNDING OR EQUAL FOR SKUTT AUTOMATIC KILN, KM-1227 PK. PROVIDE 120V/1P FOR VENT FROM RECEPTACLE CIRCUIT IN THE AREA. COORDINATE DETAILS IN FIELD WITH DIVISION 23.
- LOCATION IN FIELD WITH A/V CONTRACTOR. SEE ALSO NOTE #4.

(2) MOUNT ALL DEVICES ABOVE CENTER OF THE SMART BOARD. COORDINATE EXACT

- (3) PROVIDE NEW HANDICAP CALL-FOR-AID SYSTEM. WIRE TO ROOM RECEPTACLE BRANCH
- USE: 'AUTHENTIC PARTS' #302-2C/#206-2 OR EQUAL
- (4) ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DUAL-CHANNEL SURFACE RACEWAY (WIREMOLD 6000 SERIES STEEL OR EQUAL) (AT 44" AFF TO SERVE COMPUTER DESKS). PROVIDE ALL REQUIRED END FITTINGS, ELBOWS, FACEPLATES, BRACKETS & HARDWARE TO SERVE DEVICES SHOWN, ALL OTHER RECEPTACLES SHALL BE ON WIREMOLD 500 SERIES STEEL SURFACE RACEWAY. PROVIDE COLOR TO MATCH ARCHITECTURAL WALL BASE. REFER TO A720, DETAIL 3 & 2.
- 5 PROVIDE 120V/20A TO THE JUNCTION BOX. CONNECT BOX-MOUNT TRANSFORMER 'EL-208', 120VAC/24VAC, 100 VA, 50/60 HZ CLASS II, UL LISTED, TO SUPPLY VOLTAGE TO CONTROL MODULE FOR SENSOR OPERATED ELECTRONIC HAND WASHING FAUCET. A SINGLE TRANSFORMER OPERATE UP TO 6 FAUCETS. JUNCTION BOX SHOULD BE MOUNTED INSIDE CHASE WALL OR ABOVE CEILING, INSTALL TRANSFORMER WITHIN UNDER-LAVATORY ENCLOSURE. 18 GAUGE WIRE IS RECOMMENDED BY MANUFACTURER. COORDINATE WITH DIV. 22. CONNECT TO LOCAL RECEPTACLE CIRCUIT.
- (6) PROVIDE 120/20A JUNCTION BOX, WIRE AND CONDUIT TO INSTALL 'EL-154' TRANSFORMER FOR EACH FLUSH VALVE. A SINGLE TRANSFORMER OPERATE UP TO 10 FLUSH VALVES. COORDINATE WITH DIV. 22.
- 7 PROVIDE 120V TO THE JUNCTION BOX. CONNECT BOX MOUNT TRANSFORMER 120VAC/ 24VAC (50VA) TO SUPPLY VOLTAGE TO URINAL FLUSHOMETER WALL BOX CONTROL. A SINGLE TRANSFORMER OPERATE UP TO 10 FLUSHOMETERS, JUNCTION BOX SHOULD BE MOUNTED INSIDE CHASE WALL OR ABOVE CEILING. INSTALL TRANSFORMER WITHIN 50 FEET OF URINAL. 18 GAUGE WIRE IS RECOMMENDED BY MANUFACTURER.
- 8 PROVIDE 120V/1P/20A JUNCTION BOX FOR WALL-MOUNTED WATER COOLER. CONNECT TO THE RECEPTACLE CIRCUIT IN THE AREA. COORDINATE WITH DIV. 22.
- 9 PROVIDE FIRE ALARM MODULES FOR EACH FIRE PROTECTION TAMPER AND FLOW SWITCH. COORDINATE QTY AND LOCATION WITH FIRE PROTECTION CONTRACTOR DIV. 21 AND FIRE MARSHAL. WIRE TO FIRE ALARM SYSTEM.
- PROVIDE FEEDER FOR ELECTRICAL ALARM BELL FROM SPRINKLER VALVE LOCATED IN ELECTRICAL/MECHANICAL ROOM A001.
- (11) PROVIDE EMERGENCY POWER OFF SWITCHES WIRES AND 1" CONDUIT FOR ALL (3) THREE THE GFCI TABLE RECEPTACLES CIRCUITS. THE CONDUITS MUST BE FROM THE BASEMENT TRENCH IN CONCRETE ENCASED. PROVIDE 3-POLE, 120V, 20/30A CONTACTOR IN NEMA-1 ENCLOSURE. COORDINATE CONDUIT ROUTING IN FIELD WITH DIV. 22 AND OWNER FOR THE EXACT LOCATION.
- (12) PROVIDE DEDICATED CIRCUIT 120V/20A FOR MOTORIZED SPECIAL NEEDS CHANGING TABLE. RECEPTACLE SHALL BE RECESSED IN THE WALL BEHIND THE PANEL AT 7.5" TO THE RIGHT OFF CENTER OF PANEL AND 3.5" AFF MINIMUM TO THE BOTTOM OF THE BOX AND 5 1/8 "
- (13) PROVIDE 120V/1P/20AMPS, JUNCTION BOX, CONDUIT AND POWER WIRING FOR 'ESH1H' FLOW SWITCH ALARM SYSTEM AND POWER GOGGLE SANITIZER ALSO. COORDINATE EXACT LOCATIONS IN FIELD WITH DIV. 22.
- 14) PROVIDE CONTROL CIRCUIT TO J-BOX ABOVE CEILING FOR ZONE DAMPERS IN THIS AREA. PROVIDE ADDRESSABLE FLASHSCAN INTELLIGENT RELAY FOR EACH CLOSED GROUP, MAXIMUM OF 6. COORDINATE LOCATION AND 120 OR 24 VOLT REQUIREMENT WITH HVAC CONTRACTOR DIV. 23.
- 15 PROVIDE BLACK PAINTED FIRE-RATED PLYWOOD BACKBOARD FOR WALL MOUNTED EQUIPMENT (TYP). (6) COORDINATE ALL WALL MOUNTED DEVICES INSTALLATIONS IN THIS ROOM WITH WALL PADS.
- PROVIDE TWIST-LOCK RECEPTACLES 208V/2P/30AMPS, WIRE TO PANEL 'B' SECTION B (43, 45 AND 44, 46). REFER TO DRAWING 'E302 FA RISER DIAGRAM'.

POWER PLAN NOTES CONT.

- (8) PROVIDE CIRCUIT 120V/1P, WIRES AND CONDUITS FOR POWER TO DOOR STRIKES WHERE SHOWN. PROVIDE J-BOX ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE COORDINATED IN FIELD. CONNECT TO LOCAL RECEPTACLE CIRCUIT.
- (19) PROVIDE 120V/20A JUNCTION BOX, WIRE AND CONDUIT FOR WALL MOUNTED NEW COMMERCIAL HAIR DRYER EXCEL #XLERATOR OR EQUAL.

- COORDINATE THE TEACHER DESK QUAD RECEPTACLES WITH IT AND FURNITURE PLANS.

ELECTRICAL CONTRACTOR SHALL MOUNT ALL WALL RECEPTACLES AT 26"AFF TO THE CENTER OF THE BOX. COORDINATE IN FIELD WITH BASEBOARDS

> KEY PLAN PROJECT NOT TO SCALE

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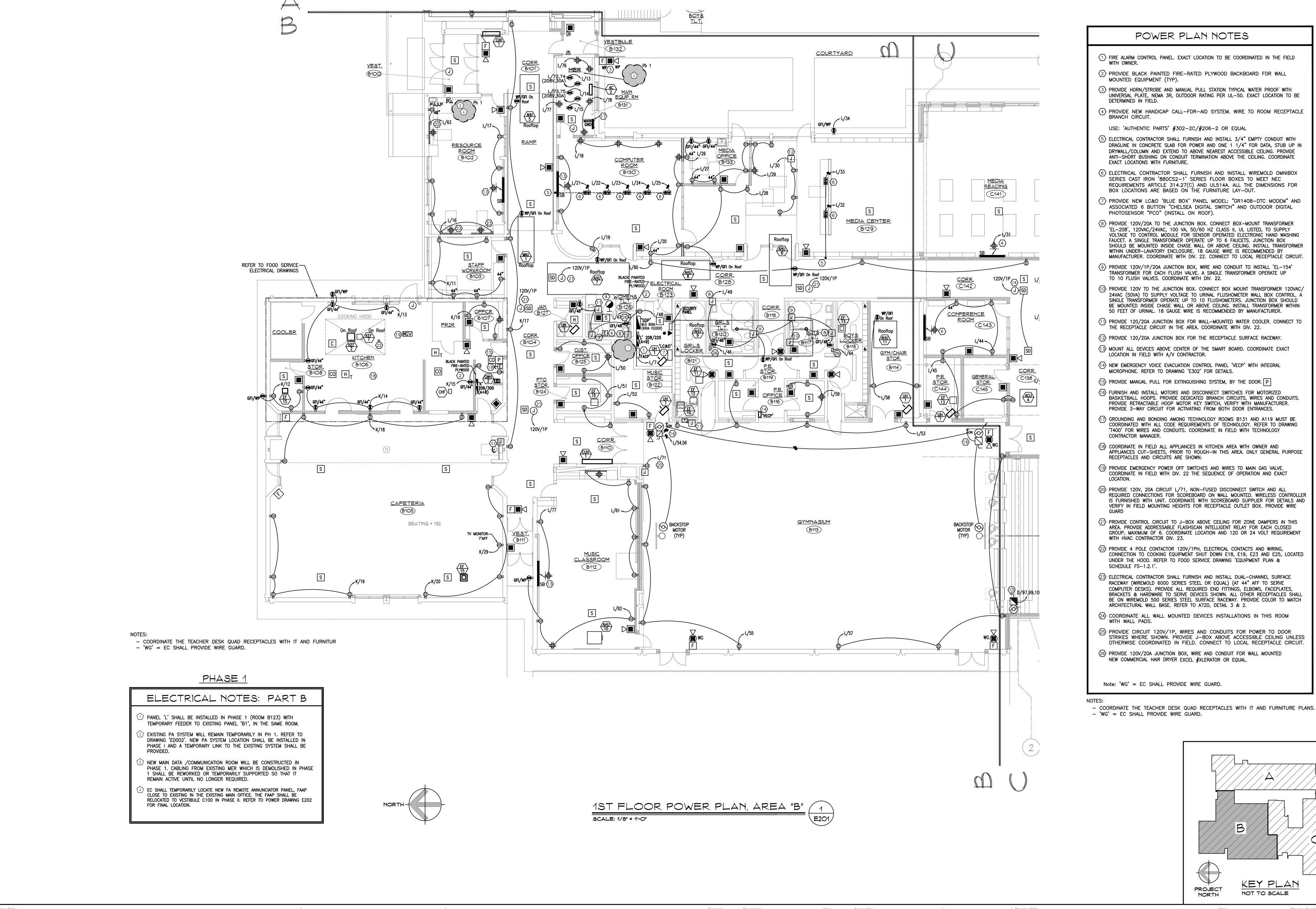
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1ST FLOOR POWER PLAN, AREA "A" State Project Number: 048-0058 EA/RR/PS

Drawing Number: JUNE 18, 2013 Scale: E200 1/8" = 1'-0" Drawn By: MS-ELE ENG Project Number:

12.140



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1ST FLOOR POWER PLAN, AREA "B"

State Project Number: 048-0058 EA/RR/PS

Date:

JUNE 18, 2013

Scale:

12.140

Scale:

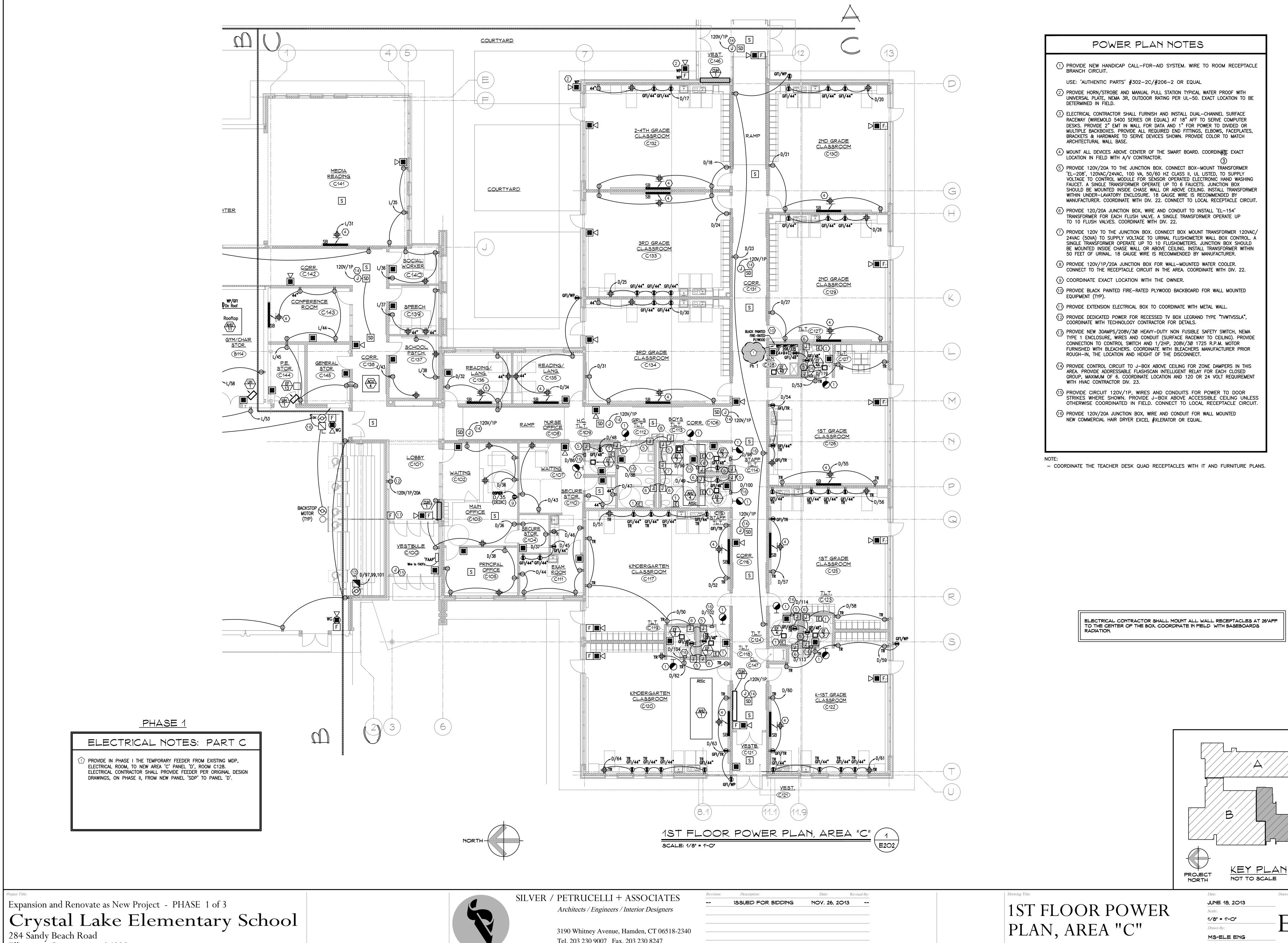
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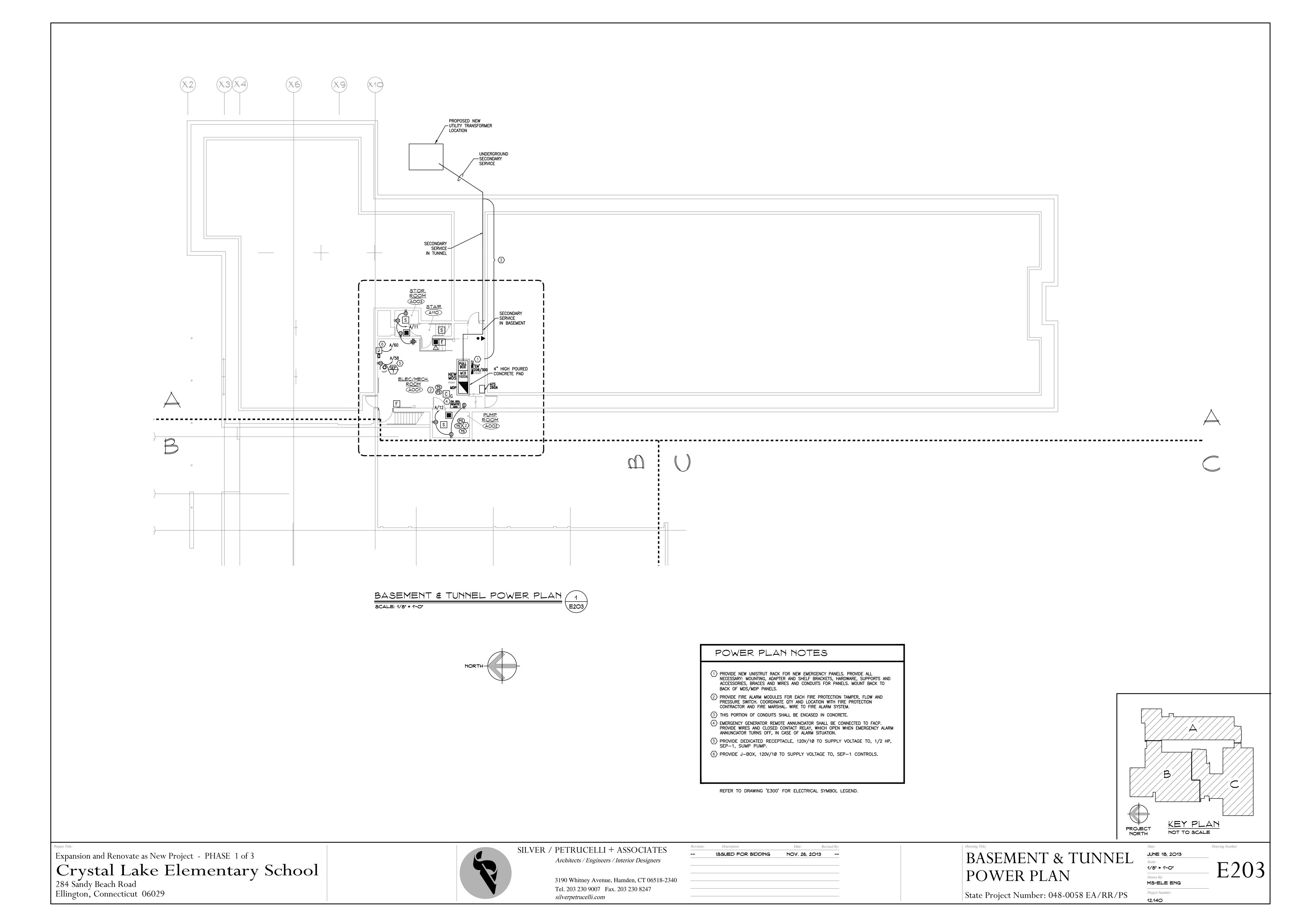
PLAN, AREA "C"

State Project Number: 048-0058 EA/RR/PS

Drawing Number: JUNE 18, 2013 E202 MS-ELE ENG

Project Number:

12.140



LIGHTING SCHEDULE NOTES

- ① CONTRACTOR TO SUPPLY A UL LISTED GRIDBOX ADJUSTABLE AIRCRAFT SUPPORT ASSEMBLY, OR EQUIVALENT, FOR PENDANT LUMINAIRES SUSPENDED FROM GRID T-BAR. USE STANDARD 0-10VDC ADVANCE MARK 7 DIMMING BALLAST. ON THE CLASSROOMS, PENDANT FIXTURES TYPE 'A' SHALL BE INSTALLED AT 8' AFF TO THE BOTTOM OF THE FIXTURES.
- (2) PROVIDE WIRE GUARD FOR ALL NEW EXITS AND 'G' LIGHT FIXTURES IN GYM AREA.
- (3) PROVIDE FACTORY (5) FIVE FEET STEM. ADJUST IN FIELD THE LENGTH, COORDINATE LENGTH WITH ARCHITECTURAL DRAWINGS. BODY COLOR SATIN-NICKEL PER ARCHITECTURAL REQUEST. LOBBY C101 STEM SHALL BE 4'-2" PER ARCHITECTURAL DRAWINGS.
- (4) PROVIDE W/ FEATURES AND ACCESSORIES NECESSARY FOR UNIVERSAL (TOP, BACK, & END) MOUNTING AND DIRECTIONAL ARROW KNOCKOUTS. ARROWS ON PLANS INDICATE DIRECTION OF CHEVRONS. SHADING INDICATES FIXTURE FACE. CHEVRON & LETTERING SHALL COMPLY W/ NFPA 101. ALL EMERGENCY EXITS SHALL BE ON THE EMERGENCY PANEL 'EM', POWERED BY THE THE EMERGENCY GENERATOR, AND
- (5) FURNISH EXIT LIGHT COMBINATION WITH UNIVERSAL WHEELCHAIR SYMBOL, MINIMUM 6" HIGH IN ACCORDANCE WITH IBC 1011.1.2., MOUNT AT THE SAME HEIGHT AS EXIT LIGHT.
- (6) FURNISH LIGHT FIXTURES WITH DAY-LIGHT SENSOR FOR CLASSROOMS, CONNECT TO ONE ROW LIGHTING FIXTURES CLOSE TO WINDOW. FOR TYPICAL CLASSROOM USE WATTSTOPPER TYPE "LMDM-101" DIGITAL DIMMING WALL SWITCH, ASSOCIATED WITH DIMMING ROOM CONTROLLER TYPE "LMRC-212".
- (7) PROVIDE LED LIGHT ENGINE 1050LRN0935. (8) UL LISTED FOR WET LOCATIONS. WLT — CERTIFIED TO MEET UL 1598.

WITH ONE UL924 RELAY PER SWITCHED AREA.

- (9) PROVIDE WITH SATIN ANODIZED BRIGHTNESS CONTROL BAND (ALUMINUM TRIM) (-BA16) FOR PR1601 AND (-BA12) FOR PR1201
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR STEM HEIGHT. SEE BELOW P2 AND P3 FIXTURES' CHART DETAILS. 10. ALL EXTERIOR FIXTURES AND INTERIOR FIXTURES IN UNHEATED SPACES SHALL BE CAPABLE OF OPERATING IN COLD TEMP (0° F).
- 11. TYPICAL ELECTRONIC BALLAST SHALL HAVE MAXIMUM TOTAL HARMONIC DISTORTION OF TWENTY PERCENT (20%)
- 12. FIXTURE MOUNTED IN T-BAR CEILING (GRID) SHALL BE PROVIDED WITH Q1033 (SET OF TWO) (2) 24" EXPANDABLE T-GRID OR
- WOOD JOIST (PAIR) BAR HANGERS. E.C. TO DETERMINE NUMBERS OF FIXTURES IN FIELD. (13) HIGH BALLAST FACTOR ELECTRONIC PROGRAMMED-START (T5HO). ALL FIXTURES MUST BE 'UL' AND 'CUL' LISTED

SWITCH ON EACH DISPLAY. http://www.visual-lighting.com/#LED/VLTLED/EssentialLEDs.

(14) PRIOR ORDERING THE THE LINEAR LED, MOUNTED VERTICAL IN ALL 4 TROPHY DISPLAYS, EC MUST MEASURE THE HEIGHT ON EACH DISPLAY WALL AND ASSURE TOP BOTTOM TOLERANCE, USE CODE FROM CUT-SHEET CHART. PROVIDE DRIVER FOR LED AND WALL

THE METAL FRAME/BODY UPPER SIDE ON ALL PENDANT FIXTURES BY ARCHITECTURAL CHOICE SHALL BE SATIN-NICKEL COLOR. OTHER FIXTURES SHALL BE WHITE FRAME, UNLESS SPECIFICALLY NOTED OTHERWISE. COORDINATE WITH ARCHITECT.

MOUNT THE EXIT SIGNS ON THE CURTAINWALL ABOVE THE ENTRANCES' HEAD RAILS WHERE SHOWN ON THE LIGHTING DRAWINGS. PROVIDE THE WIRES THROUGH MULLIONS TO POWER THE EXIT UNITS. REFER TO ARCHITECTURAL DRAWINGS FOR EXTERIOR WALL MOUNTED FIXTURE HEIGHT AND EXACT LOCATIONS.

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FIXTURE NAME	FIXTURE TYPE	FIXTURE HEIGHT	ROOMS NAME/NR.	AFF HEIGHT
P2	PR1601-F270	17.5"	MEDIA CENTER READING	11' * **
P3	PR1201-F170	14"	MEDIA CENTER STACKS BELOW THE METAL GRID	18'-4"

NOTE:

- * IN MEDIA CENTER ROOM C141, ALL PENDANT FIXTURES TYPE 'P2' CAN ALL BE SET UNIFORMLY AT 11'-0" ABOVE THE FINISH FLOOR TO BOTTOM OF FIXTURES, PER ARCHITECT REQUEST.
- ** MEASURE PRIOR ORDERING THE STEM LENGTH. COORDINATE IN FIELD WITH FINAL STRUCTURAL END SUPPORT CONNECTION. REFER TO ARCHITECT AND ARCHITECTURALURAL SECTIONS FOR FINAL AFF HEIGHTS.

IMP. NOTE: EQUAL OF P2, P3 AND G FIXTURES MUST BE APPROVED BY ENGINEER PRIOR ANY OF FIELD WORK, ALONG WITH IES PHOTOMETRICAL CALCULATION RESULT OF THE AREA WHERE TO BE INSTALLED. FIXTURES P2 AND P3 SHALL HAVE SATIN ANODIZED BRIGHTNESS CONTROL BAND AS SHOWN, NO EXCEPTIONS WILL BE GRANTED.

LIGHTING SCHEDULE AND LEGEND	1
SCALE: AS NOTED	E300

		LIGHTING FIXTURE S	SCHED	DULE					
DESIGNATION	DESCRIPTION	MANUFACTURER/		LAMP			ELECTRICAL	1	NOTES
	CHCDENDED D/I	MODEL NUMBER	TYPE	COLOR TEMP	NO	BALLAST	VOLTAGE	WATTS	
А	SUSPENDED D/I 4', 2 ROWS OF PERFORATIONS	FINELITE S12-P-4'-2T8-SC-91W-120-FA50"	32W, T8	4100K	2	DIMMING	120	64	16
В	ACRYLIC LENS TROFFER, .125" LENS 2'x2', RECESSED, GRID, STATIC	DAY-BRITE LIGHTING-STATIC RECESSED 2TG8217-21-UNV-1/2-EB	T8,17W, 24" STRAIGHT	4100K	2	ELECTRONIC	120	34	
B1	ACRYLIC LENS TROFFER, .125" LENS 2'x2', SURFACE MODULAR	DAY-BRITE LIGHTING 2SMR231U6-FS12-120-1/2-EB	T8-U 31W	4100K	2	ELECTRONIC	120	62	
B2	ACRYLIC LENS TROFFER, .125" LENS 2'x2', RECESSED, GRID, STATIC	DAY-BRITE LIGHTING 2TG8231U6-12-120-1/2-EB	T8-U 31W	4100K	2	ELECTRONIC	120	62	
В3	ACRYLIC LENS TROFFER, .125" LENS 2'x2', RECESSED, GRID, STATIC	DAY-BRITE LIGHTING 2TG8224H0-12-120-1/2-EB	T5H0 24W	4100K	2	ELECTRONIC	120	48	
В4	ACRYLIC HIGH LIGHT LINEAR TRAN. PRISMATIC LENS 2'x2', RECESSED, GRID/SLOT, STATIC	PHILIPS -LIGHTOLIER H9S2GLR224120PF	T5H0 24W	4100K	2	DIMMING	120	48	
B5	ARIOSO ACRYLIC LENSED TROFFER D/I 2'x2', RECESSED, GRID, STATIC	DAY-BRITE LIGHTING 2AVG224HO-ACR-UNV-1/2EBD-AVHD	T5H0 24W	4100K	2	DIMMING	120	48	
 B6	ACRYLIC LENSED TROFFER — WET LOCATION 2'x2', RECESSED, GRID, STATIC,	DAY-BRITE LIGHTING 2DPWLG317-FA21-120-1/3-EB101-3W	T8	4100K	3	ELECTRONIC	120	51	
B7	ACRYLIC LENSED TROFFER — WET LOCATION 2'x2', RECESSED, GRID, STATIC,	DAY-BRITE LIGHTING 2DPWLG417-FA21-120-1/3-EB101-3W	T8	4100K	4	ELECTRONIC	120	68	
	HI EFFICENCY ARCHITECTURAL	DAY-BRITE LIGHTING-ATTUNE	TT5-4PIN		•				
B8	2'x2', LENS, RECESSED, STATIC ARIOSO ACRYLIC LENSED TROFFER D/I	2ATNG2CF40-D-120-1/2-EB DAY-BRITE LIGHTING	40W TT5-4PIN	4100K	2	ELECTRONIC	120	80	
B9	2'x2', RECESSED, GRID, STATIC SURFACE WRAPAROUND	2AVG2CF40-ACR-UNV-1/2EBD-AVHD DAY-BRITE LIGHTING	40W 32W	4100K	2	ELECTRONIC	120	80	
С	4' LENGTH FLUORESCENT DOWNLIGHT 6" ROUND,	OWN232-120-1/2EB OMEGA LIGHTING, SPEX	T8 QPL	4100K	2	ELECTRONIC	120	64	
D	OPEN, HORIZONTAL DOWNLIGHT WALL WASH LED HIGH EFFICIENCY	S61H26QPLU-T61HQPLCSS PHILIPS - OMEGA REVELATION	26W	4100K	1	ELECTRONIC	120	26	
D1	PHOSPHOR TECHNOLOGY BATHROOM SHOWER FIXTURE	OM6LED27 - R6LED40KWWCS DAY-BRITE LIGHTING, OMEGA-SPEX	LED 32W	4000K		NO BALLAST	120	27	
D2	FLUR LAMP, 6" SHALLOW RECESSED	S6SRD1H32PLTU-T6SRD1HSHWRCP	PLT	4100K	1	ELECTRONIC	120	32	
E1	EXIT LIGHT — LED, SINGLE FACE SELF—CONTAINED, END/BACK/TOP MOUNT	EVENLITE—SENTRY CCDS—AC—R—1—WW—CN	LED			NO BALLAST	120	4	4
E2	EXIT LIGHT — LED, DOUBLE FACE SELF—CONTAINED, END/BACK/TOP MOUNT	EVENLITE—SENTRY CCDS—AC—R—2—WW—CN	LED			NO BALLAST	120	4	4 5
EU	EXIT LIGHT & ILLUM. SIGN FOR ACCESSIBLE EXIT W/UNIVERSAL WHEELCHAIR SYMBOL, SELF—CONT.	TELESIS-EVENLITE TLA-AC-R-1-W-CN	LED			NO BALLAST	120	4	24
E3	OUTDOOR EXIT LIGHT — LED, SINGLE FACE SELF—CONTAINED, END/BACK/TOP MOUNT	EVENLITE-SENTRY CDW-AC-R-1-WW-CN-BZ	LED			NO BALLAST	120	4	4
EU1	OUTDOOR ILLUM. SIGN FOR ACCESSIBLE EXIT — SF W/UNIVERSAL WHEELCHAIR SYMBOL, SELF—CONT.	EVENLITE-SENTRY CDW-AC-R-1-WW-CN-SA	LED			NO BALLAST	120	4	45
ER	REMOTE EXIT LIGHT, SELF—CONT. WALL MOUNT, 12" AFF	TELESIS-EVENLITE TLA6-AC-R-1-W-CN-WG70	LED			NO BALLAST	120	4	24
G	LENSED FLUORESCENT HIGH BAY T5HO LAMPS	PHILIPS-OPTIMUM LIGHTING GX-DL2-6-54-12-3-HI-E-WG	T5HO, 54W, 48" STRAIGHT	4100K	6	ELECTRONIC	120	324	2(13)
0	UNDER CANOPY, LED, ROUND LENSED, LOW PROFILE	PHILIPS — LIGHTOLIER LYTECASTER 1050LRN09D1 — 1050LRNDLCDW	LED 35W				120	35	7
	OUTDOOR SURFACE WALL MOUNTED LED,	MILLENIUM AURACYL SCONCE-KENALL	LED 14W					14	8) IP64
ON1	MARINE GRADE AL HOUSING W/DIE-CAST END CAPS EXTERIOR TRAPEZOIDAL FULL CUTOFF,	PHILIPS-GARDCO	42W				120		8
OSF	101 PERFORMANCE SCONCE, WALL MOUNTED COMPACT FLUORESCENT	101-MT-(2)42TRF-120-BRP PHILIPS-OMEGA	TRF 42W	4100K	2	ELECTRONIC	120	84	
P1	GLASS PENDANT CEILING PENDANT WITH CLEAR ACRYLIC	IAN8-42PLT-OP-S-FLD-U PRISMA - LUMINIS LIGHTING	PLT 70W	4100K	1	ELECTRONIC	120	42	3
P2	PRISMATIC DIFFUSER, PRISMA 1601 CEILING PENDANT WITH CLEAR ACRYLIC	PR1601-F270-120V-L16-BA16-STA PRISMA - LUMINIS LIGHTING	CF (GX24q) 70W	4100K	2	ELECTRONIC	120	140	9
P3	PRISMATIC DIFFUSER, PRISMA 1201 WALL MOUNTED	PR1201-F170-120V-L16-BA12-STA LIGHTOLIER - ALTER SOFT LIGHTING	CF (GX24q)	4100K	1	ELECTRONIC	120	70	9
S1	FLUORESCENT SCONCE WALL MOUNTED WALL MOUNTED	QVW8SPFGOS2FT120BE PHILIPS DAY—BRITE — ARIOSO SCONCE	18W	4100K	2	ELECTRONIC	120	80	
S2	FLUORESCENT SCONCE	AVS2CF18-SPMW-120-1/2	TT5	4100K	2	ELECTRONIC	120	36	
ST1	POLE LIGHTING FIXTURE LED	GARDCO-PUREFORM P21-A1-1-3-130LA-CW	130W LED				120	130	
ST2	POLE LIGHTING FIXTURE LED	GARDCO-PUREFORM P21-A-2-4-130LA-CW	130W LED				120	260	
ST3	POLE LIGHTING FIXTURE LED	GARDCO-PUREFORM P21-A1-1-4-130LA-CW	130W LED				120	130	
Т	WALL MOUNT COMPACT FLUORESCENT LUMINAIRE — TUNNELS	KALEIDOSCOPE – VAPORTITE SERIES RLW26HGLCGC-1	26W PLT	4100K	1	ELECTRONIC	120	26	
T1	LINEAR LED — TROPHY DISPLAY	VISUAL LIGHTING TECHNOLOGY — ESSENTIALLED LINEAR ELL—1QL—2545—40—AL—PG—WE1— Use Code Length	.25W	4000K		DRIVER CLASS 2 UL	120/24Vdc	VARY BY LOC LENGTH	(14)
U1	UNDER CANOPY, COMPACT FLUORESCENT, HIGH ABUSE ENVIRONMENTAL	MILLENIUM – KENALL MR13FL-PIA-MW-26Q-2-120	26W QUAD	4100K	2	ELECTRONIC	120	52	
W	WALL MOUNT — SMALL LOW PROFILE WALL PACK —STAIR LIGHTING	PHILIPS DAY-BRITE OUTDOOR WLT070MDT-LP	70W MH	4100K	1	MH-EPS	120	70	8
V V	WALL BRACKET, FLUORESCENT FIXTURE, 2', CLEAR ACRYLIC REFRACTOR	PHILIPS DAY—BRITE LIGHTING WB217—CP—120—1/2EB	17W T8	4100K	2	ELECTRONIC	120	34	

LEGEND NOTES:

ISSUED FOR BIDDING

- REFER TO DRAWING '1-LINE DIAGRAM' 'E301' & 'FA RISER DIAGRAM' 'E302' (FIRE ALARM LEGEND), AND DRAWING 'FP401' FOR ADDITIONAL SYMBOLS.
- PROVIDE BLACK PAINTED FIRE—RATED PLYWOOD BACKBOARD FOR WALL MOUNTED EQUIPMENT (TYP. PANELBOARDS, PHONE ETC.). ANCHOR AS REQUIRED FOR SEISMIC LOAD.
- COORDINATE IN FIELD WITH A/V CONTRACTOR FOR EXACT RECEPTACLE AND RECESSED TV

ELECTRICAL LEGEND (NOT ALL SYMBOLS ARE USED) ELECTRICAL PANEL, 120/208 VOLT. PANELBOARD FLUSH MOUNTED. PANELBOARD SURFACE MOUNTED. NON-FUSED DISCONNECT SWITCH. FUSED DISCONNECT SWITCH. J | (J) JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS. MOTOR STARTER. COORDINATE EXACT REQUIREMENTS WITH MOTOR FURNISHED. O RECESSED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE. RECESSED LIGHT FIXTURE ON UL924 RELAY CONTROL FROM EMERGENCY BRANCH CIRCUIT. TYPICAL RECESSED FLUORESCENT TROFFER; SUBLETTER INDICATES FIXTURE TYPE & SIZE. LIGHT FIXTURE ON UL924 RELAY CONTROL FROM EMERGENCY BRANCH CIRCUIT. RECESSED HIGH EFFICIENCY GLARE CONTROL FIXTURE; SUBLETTER INDICATES FIXTURE TYPE & SIZE. TYPICAL SURFACE MOUNTED OR CABLE HUNG FLUORESCENT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE & SIZE. WALL MOUNTED FIXTURE; SUBLETTER INDICATES FIXTURE TYPE. WALL MOUNTED FIXTURE ON UL924 RELAY CONTROL FROM EMERGENCY BRANCH CIRCUIT; SUBLETTER INDICATES FIXTURE TYPE. E1 CEILING MOUNTED EXIT SIGN. SHADING INDICATES DIRECTION OF FIXTURE FACE. ARROW INDICATES DIRECTION OF CHEVRON. PROVIDE UNSWITCHED POWER FROM AREA EMERGENCY LIGHTING CIRCUIT. E1 WALL MOUNTED EXIT SIGN. INSTALL AT 7'-6" AFF OR ON EXISTING LOCATION. E2 DOUBLE FACE EXIT SIGN. \bigcirc E3 WALL MOUNTED OUTDOOR WET LOCATION EXIT SIGN. INSTALL AT 7'-6" AFF OR ON EXISTING LOCATION. EU COMBINATION EXIT AND HANDICAP SIGN INSTALL AT 7'-6" AFF OR AS NOTED. ARROW INDICATES OF CHEVRON. PROVIDE UNSWITCHED POWER FROM AREA EMERGENCY LIGHTING CIRCUIT. TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY FOR 90 MINUTE EMERGENCY LIGHTING. \$ SINGLE-POLE SWITCH; MOUNT AT 48" AFF. $\$_3$ 3-WAY SWITCH; MOUNT AT 48" AFF. $$_4$ 4-WAY SWITCH; MOUNT AT 48" AFF. \$M SINGLE-POLE, MOTION SENSOR SWITCH; MOUNT AT 48" AFF. \$D FLUORESCENT DIMMING CONTROL COMPATIBLE WITH DIMMING BALLASTS. \$k/\$3K KEYED SINGLE-POLE OR 3-WAY SWITCH; MOUNT AT 48" AFF. © CEILING MOUNTED OCCUPANCY SENSOR. REFER TO SPECIFICATION 16500 FOR DETAILS. DUPLEX RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED. 250-VOLT, NEMA TYPE RECEPTACLE IN FLUSH OUTLET BOX (2P OR 3P MARKED ON DRAWING). QUAD RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED. POWER RECEPTACLE INSTALLED ABOVE CEILING OR ON STRUCTURE AS SHOWN ON POWER PLANS. ⇒ GFI DUPLEX GROUND FAULT RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED. RECEPTACLE WITH OUTDOOR RATED COVER PLATE. PROVIDE FLUSH MOUNTED BOX. $\Longrightarrow_{\mathsf{TR}}$ TAMPER RESISTANCE RECEPTACLE. ▼ D:X COMPUTER NETWORK WORKSTATION PORT. MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. D:X = NUMBER OF DATA OUTLETS. PROVIDE CAT6A CABLE (4 PAIR UTP) ON EACH LOCATION AS NOTED. ∇ TELEPHONE JACK LOCATION. PROVIDE 4" SQUARE BOX, 1-GANG RING & 3/4" CONDUIT TO CEILING SPACE. PROVIDE CAT6A CABLE (4 PAIR UTP) ON EACH LOCATION. VOICE/DATA OUTLET, 4" X 4" OUTLET BOX WITH A 1 GANG COVER 18 INCHES ABOVE FINISHED FLOOR OR AS NOTED WITH 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. V:X/D:X = NUMBER OF VOICE/DATA PORTS. PROVIDE CAT6A CABLE (4 PAIR UTP) ON EACH LOCATION. COORDINATE WITH A/V CONTRACTOR. O CLASSROOM TELEPHONE. D = DESK MOUNT, OTHERWISE WALL MOUNT. MOUNT JACKS FOR DESK UNITS UNITS AT 18" AFF. MOUNT JACKS FOR WALL UNITS AT 48" (60") AFF FOR GENERAL LOCATIONS. PROVIDE CAT6A CABLE (4 PAIR UTP) ON EACH LOCATION. COORDINATE EXACT LOCATION WITH THE OWNER. ◆ FLUSH OUTLET BOX FOR WALL-MOUNTED TELEPHONE 48" AFF OR AT HEIGHT INDICATED ON PLAN, WITH 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE CAT6A CABLE (4 PAIR UTP) ON EACH LOCATION. (+) 12" ROUND, BATTERY POWER WIRELESS CLOCK. WALL MTD. 8'-6" AFF OR 8" BELOW CEILING. GYM CLOCK MUST BE PROVIDED WITH PROTECTIVE STEEL WIRE GUARD. REMOVE EXISTING CLOCKS AND INSTALL NEW IN SAME § 8" RECESSED CEILING SPEAKER WITH BACKBOX, TILE BRIDGE & BAFFLE. (S) WALL MOUNTED PA SYSTEM SPEAKER. MOUNT 8'-6" AFF OR 8" BELOW CEILING. TV COAXIAL JACK LOCATION. PROVIDE NEW JACK & COAXIAL CABLE TO HEADEND EQUIPMENT. COORDINATE REQUIREMENTS OF JACK & CABLE WITH OWNER & SYSTEM INSTALLER. SEE ALSO DETAIL DRAWING 'E303' CATV E CALL-FOR-AID SWITCH. MOUNT AT 36" AFF, W/ PULL CORD HANGING DOWN TO 6" AFF. CALL—FOR—AID CORRIDOR LIGHT/BUZZER. MOUNT AT 7'—6" AFF. \blacksquare EMERGENCY POWER SHUT-OFF SWITCH WITH KEY RESET. MOUNT WITH OPERATOR AT 48" AFF. AOR AREA OF REFUGE REMOTE COMMUNICATION DEVICE. AORM AREA OF REFUGE MASTER STATION. LOCATION TO BE COORDINATED W/ FIRE DEPARTMENT. AREA OF REFUGE ILLUMINATED SIGN WITH UNIVERSAL WHEELCHAIR SYMBOL AND 90 MINUTE BATTERY BACKUP, SURFACE MOUNT. EQUIPMENT TAG. BRANCH CIRCUIT HOMERUN (VOLTAGE, BRANCH CIRCUIT POLES). TR TAMPER-RESISTANT (OUTLET). NL LIGHT FIXTURE TIED TO UNSWITCHED NIGHT LIGHTING CIRCUIT. EX EXISTING TO REMAIN. RELOC RELOCATE/RELOCATED AT THE SAME HEIGHT (PER NEC REQUIREMENTS). R EXISTING FIXTURE OR DEVICE TO BE REMOVED. PRTR PRINTER. LIGHT FIXTURE EXISTING. ← ⊨ RECP DEMO. SW DEMO. (PE) DAY-LIGHT SENSOR. TC TIME CLOCK.

- BOXES LOCATION TO MATCH DATA, AND PROVIDE CONDUIT AND WIRING.

NOV. 26, 2013 --

LIGHTING SCHEDULE

AP WIRELESS ACCESS POINT (CABLE AND JACK ONLY IN THIS SCOPE).

ELECTRONIC SMART BOARD, TYP. TO MATH & SCIENCE CLASSROOMS, AS WELL AS (2) MEDIA CENTER, PROVIDE DATA

ALL SHADED FIXTURES MUST BE CONNECTED TO AN EMERGENCY CIRCUIT TO THE EMERGENCY PANEL 'EM' LOCATED

EH EMERGENCY STOP. WIRE TO MAIN GAS VALVE. COORDINATE IN FIELD WITH DIV. 22 THE SEQUENCE OF

POWERED DOOR OPERATOR FURNISHED WITH DOOR HARDWARE. PROVIDE 120V CONNECTION FROM LOCAL RECEPTACLE CIRCUIT. PROVIDE RACEWAY & CONTROL WIRE TO PUSHBUTTON LOCATION COORDINATED IN FIELD.

TELECOMMUNICATION GROUNDING BUSBAR PER DIVISION 27 SPECIFICATIONS. CONNECT TR ROOMS GND BUSBARS TO MER ROOM MAIN GND BUSBAR. COORDINATE IN FIELD FOR DETAILS WITH A/V CONTRACTOR MANAGER.

SB AND POWER TO SB AND TEACHER DESK AS IN MEDIA CENTER. COORDINATE LOCATIONS IN FIELD.

A C ELECTRICAL ALARM BELL, FOR DRY AND WET CONDITIONS.

TV CCTV CAMERA EXISTING.

SECURITY CAMERA DOME.

DIGITAL PROJECTOR CEILING MOUNTED.

OPERATION AND EXACT LOCATION.

TV CCTV CAMERA.

PROJECTOR SCREEN.

MG∨ MAIN GAS VALVE.

AND LEGEND State Project Number: 048-0058 EA/RR/PS Drawing Number:

MS-ELE ENG Project Number: 12.140

JUNE 18, 2013

NTS

Drawn By:

SILVER / PETRUCELLI + ASSOCIATES

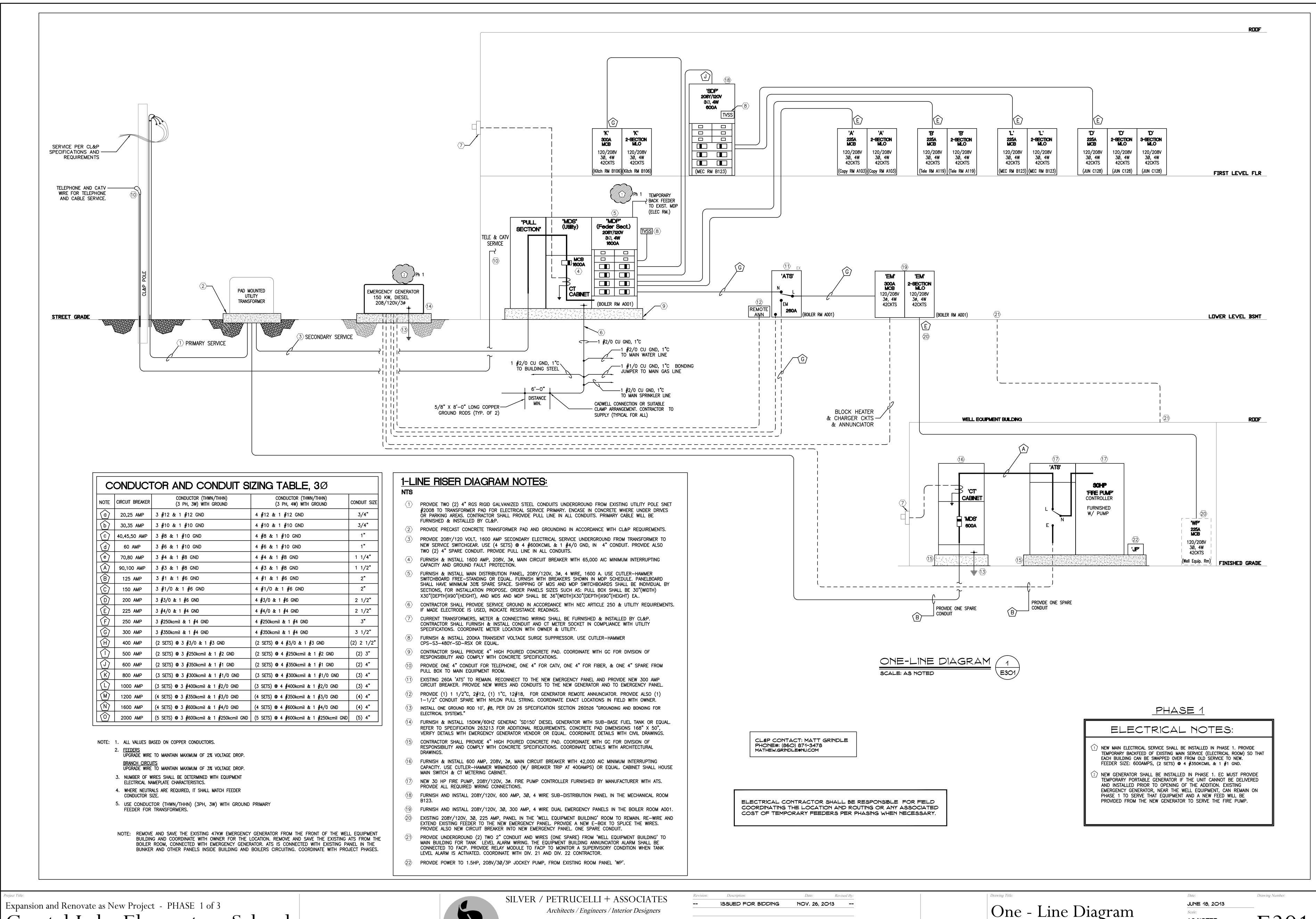
3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

Architects / Engineers / Interior Designers

Expansion and Renovate as New Project - PHASE 1 of 3

Crystal Lake Elementary School
284 Sandy Beach Road

Ellington, Connecticut 06029



Crystal Lake Elementary School
284 Sandy Beach Road

Ellington, Connecticut 06029



3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

One - Line Diagram

AS NOTED Drawn By: MS-ELE ENG

State Project Number: 048-0058 EA/RR/PS

Project Number: 12.140

GENERAL NOTES - ELECTRICAL

- 1. SPECIFICATION SECTIONS, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS AND DRAWINGS ARE INTEGRAL PARTS OF CONTRACT
- SYSTEM COMPONENTS ARE LOCATED APPROXIMATELY ON DRAWINGS.
 BASE ACTUAL LOCATIONS ON FIELD VERIFICATION OF EXISTING BUILDING
 CHARACTERISTICS INCLUDING BUT NOT LIMITED TO STRUCTURAL,
 MECHANICAL, ELECTRICAL & ARCHITECTURAL COMPONENTS.
- 3. ALL WORK AND ACTION DEPICTED AND DESCRIBED IN CONTRACT DOCUMENTS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- 4. REFERENCE TO SPECIFIC SUB-CONTRACTORS SUCH AS "MECHANICAL", "ELECTRICAL", ETC. ARE INTENDED TO SUGGEST POSSIBLE DIVISION OF RESPONSIBILITY. PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND EXECUTION OF ALL WORK.
- 5. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- 6. ALL EQUIPMENT, MATERIALS AND RELATED SYSTEM COMPONENTS SHALL BE NEW UNLESS NOTED OTHERWISE.
- REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
- 8. CIRCUITING DEPICTED FOR RECEPTACLES & LIGHTING FIXTURES DEFINES GROUPING OF FIXTURES, DEVICES AND COMPONENTS AND REQUIRED CONDUCTORS. CIRCUITING IS NOT INTENDED TO DEFINE
- CONDUIT LOCATIONS.

 9. STUDY THE PROJECT MANUAL & DRAWINGS OF OTHER DISCIPLINES
- INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL & MECHANICAL.

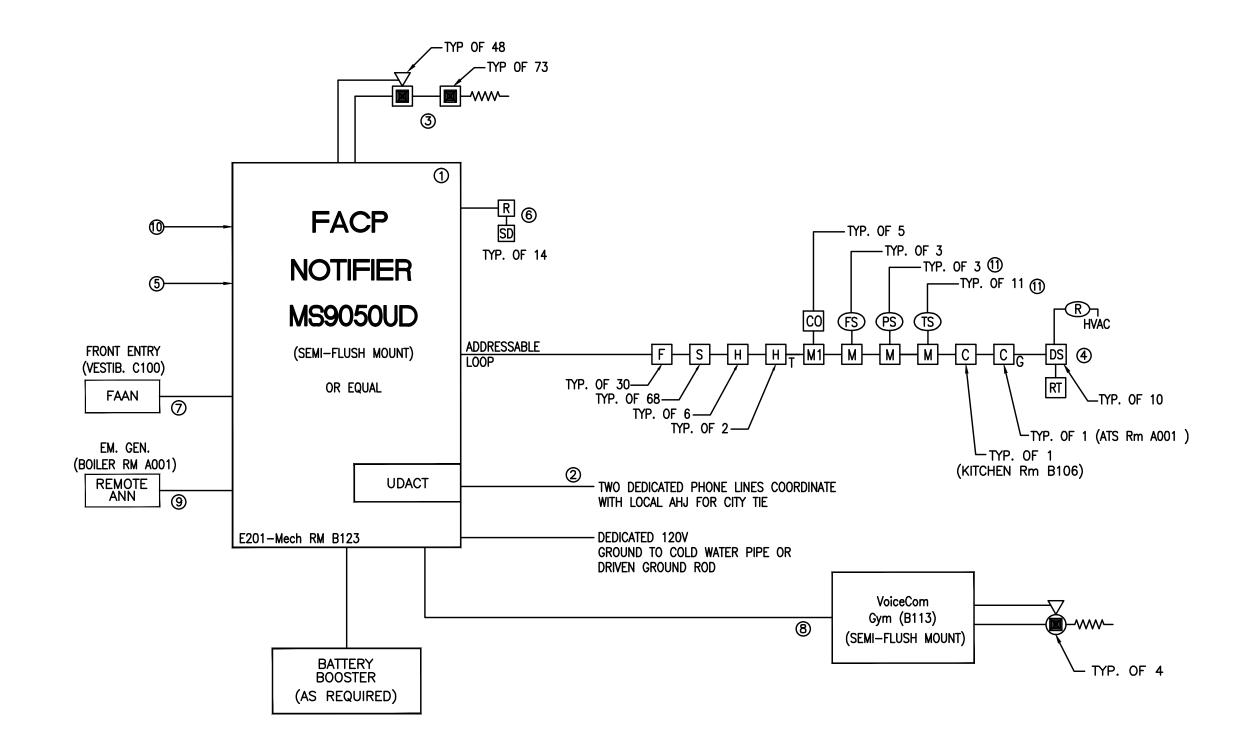
 10. PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES
- FOR SEISMIC RESTRAINT AS REQUIRED BY CODE.

 11. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE APPLICABLE CODES IN THE ORDINANCES AND THE REGULATORY
- AGENCIES HAVING JURISDICTION.

 12. CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH UL
- LISTED FIRE STOPPING SEALANT WHERE REQUIRED.

 13. ELECTRICAL CONDUITS & BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS WHEREVER POSSIBLE.
- 14. FURNISH & INSTALL GFCI RECEPTACLES IN ALL WET LOCATIONS, WITHIN 4' TO 6' OFF WATER SOURCE.
- 15. ALL PENETRATIONS THRU RATED WALLS & CEILINGS SHALL BE SEALED USING U.L. LISTED METHODS APPROPRIATE FOR INDICATED RATING.
- 16. NO PENETRATIONS ARE ALLOWED INTO STAIR ENCLOSURES EXCEPT AS REQUIRED FOR SERVICES UTILIZED IN THE STAIR.
- 17. ALL DEVICES WITHIN EXISTING AND NEW RATED WALLS (ON BOTH SIDES)
 SHALL BE SURFACE MOUNTED, REFER TO CODE PLANS FOR WALL

						PANE	<u></u> EL "	'B" (\$	SECT	ION	 - В)					
RATING: 240V/225A 22,000 AIC SERVICE: 208 Y/120)V, 3 Pł															LOCATION: 1st Fir 'A' IT RM A119 MOUNTING: FLUSH
DESCRIPTION	NOTE	AMPS	TRIP AMP	POLE	CKT.	CKT. NO.	А	В	С	CKT. NO.		POLE	TRIP AMP	1	NOTE	DESCRIPTION
RECP - Twist-Lock		25.0	30	2	В	43	50.0			44	В	2	30	25.0		RECP - Twist-Lock
Rm A119	l	25.0	1	'		45		50.0		46	1	l		25.0	1	Rm A119
RECP - A119		5.0	3	1	Α	47			10.0	48	Α	1	20	5.0		RECP - A119
RECP - A120	1	5.0	4	1	Α	49	5.0			50	Α	1	20			SPARE
SPARE			5	1	Α	51		0.0		52	Α	1	20			SPARE
SPARE			6	1	Α	53			0.0	54	Α	1	20			SPARE
SPARE			7	1	Α	55	0.0			56	Α	1	20			SPARE
SPARE			8	1		57		0.0		58		1	20			SPARE
SPARE			9	1		59			0.0	60		1	20			SPARE
SPARE			10	1		61	0.0			62		1	20			SPARE
SPARE			11	1		63		0.0		64		1	20		T	SPARE
SPARE			12	1		65			0.0	66		1	20			SPARE
SPARE			13	1		67	0.0			68		1	20	1		SPARE
SPARE	1		14	1		69		0.0		70		1	20			SPARE
SPARE			15	1		71			0.0	72		1	20			SPARE
SPARE			16	1		73	0.0			74		1	20			SPARE
SPARE			17	1		75		0.0		76		1	20			SPARE
SPARE			18	1		77			0.0	78		1	20			SPARE
SPARE			19	1		79	0.0			80		1	20			SPARE
SPARE			20	1		81		0.0		82		1	20			SPARE
SPARE			20	1		41			0.0	84		1	20			SPARE
TOTAL CONNECTED	LOAD	PER P	HASE	:			55.0	50.0	10.0							
AVG AMPS/PHASE:								38.3								
TOTAL KVA:							13.8	KVA								
NOTES:								-								
	1. PA	NELBOA	∖RD S!	HALL F	3E Cl	JTLER-⊦	HAMMER	: 'POW-F	R-LINE 1	ia' OR'	EQUA	L WITH	1 225 <i>F</i>	NCB.		
	2. PR	ROVIDE C	OB LOC	CK.												
	3. PR	ROVIDE S	SHUNT	TRIP	BREA	KER.										
	4. UP	'GRADE	WIRE	SIZE /	AS RE	QUIREC	D TO MAII	NTAIN 3	% MAX	JMUM V	/OLTA	GE DR	OP.			
	5. CIF	RCUIT TY	PE A:	120V,	3 WIF	RE IN CO	ONDUIT C	OR MC (CABLE.							
	6. CIF	RCUIT TY	PE B:	208V,	1PH,	4 WIRE	IN CONE	DUIT OF	MC CA	BLE.						
							IN CONE									



FIRE ALARM RISER DIAGRAM

- ① REFER TO SPECIFICATION 283111 FOR SYSTEM REQUIREMENTS.
- ② PANEL WILL BE FURNISHED WITH DIALER FOR FIRE SERVICE NOTIFICATION. PROVIDE TWO PHONE LINES FROM D-MARK.
- ③ PROVIDE WIRING AS REQUIRED TO ALLOW FOR SILENCING OF AUDIBLE DEVICES WITH STROBES STILL ACTIVE. ALL STROBES SHALL BE SYNCHRONIZED.
- 4 DUCT SMOKE DETECTOR TYPICAL FOR ONE ON THE SUPPLY SIDE, FOR RTU'S/AHU's > 2000 NOMINAL CFM.
- ⑤ PROVIDE 120V, 20A DEDICATED BRANCH CIRCUIT WITH BREAKER LOCK, IN PANEL L/7.
- HVAC CONTRACTOR DIV. 23. PROGRAM TO CLOSE ON ANY ALARM. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.

6 FURNISH AND INSTALL ADDRESSABLE RELAY FOR CLOSURE OF SMOKE DAMPER. DAMPERS ARE BY

- TURNISH AND INSTALL NEW FIRE ALARM ANNUNCIATOR PANEL FAAP. PROVIDE ALL WIRES, CONDUITS AND ALL ACCESSORIES.
- 8 FURNISH AND INSTALL NEW EMERGENCY VOICE EVACUATION CONTROL PANEL 'VECP' WITH INTEGRAL MICROPHONE, NOTIFIER MODEL 'VEC 25/50' OR EQUAL FOR GYM AREA. COORDINATE EXACT LOCATION IN FIELD WITH EQUIPMENT SUPPLIER.
- ONNECT FACP WITH EMERGENCY GENERATOR ALARM REMOTE ANNUNCIATOR, LOCATED IN BASEMENT OLD BOILER ROOM.
- ① CONNECT FACP TO WELL CONTROL PANEL. REFER TO DRAWING 'E301 ONE—LINE DIAGRAM'.
 ① PROVIDE SURGE PROTECTION FOR FIRE ALARM DEVICES IN THE WELL EQUIPMENT BUILDING.
- GEN. ALL WIRING TO BE PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.

 GEN. FURNISH DEVICES WITH ALL NECESSARY MATERIALS AND ACCESSORIES FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.
- GEN. MOUNT NOTIFICATION DEVICES 80" AFF OR 6" BELOW CEILING, WHICH EVER IS LOWER. MOUNT PULL STATIONS AT 48" AFF.
- GEN. REFER TO POWER PLANS TO CONFIRM DEVICE QUANTITIES. COORDINATE WITH DIV 22 AND DIV 23 FOR ANY ADDITIONAL DEVICES NOT DEPICTED IN THIS DIAGRAM.
- GEN. FLOW SWITCHES ARE IN 1ST FLOOR POWER PLAN, AREA "A", DWG 'E200',
 BASEMENT DRAWING 'E203' AND ONE FS ON RISER TO ATTIC. COORDINATE WITH FIRE
 PROTECTION PLAN FP105 AND FP501 (1) ONE PS AND (7) SEVEN TS IN WELL
 EQUIPMENT BUILDING.

NOTE: MOUNT FA DEVICES ON THE CURTAINWALL ABOVE THE ENTRANCES' HEAD RAILS IF NEED IT. PROVIDE THE WIRES THROUGH MULLIONS TO POWER THE DEVICES.

ALLOW FOR 5 ADDITIONAL SMOKE DETECTORS INSTALLED WITH 50' OF FA CABLE TO BE COORDINATED WITH IN FIELD, FM REQUESTS

	FIRE ALARM LEGEND
FACP	EXISTING FIRE ALARM CONTROL PANEL
UDACT	DIGITAL DIALER W/ TWO PHONE LINES
	ADA WALL MOUNT HORN/STROBE
	ADA WALL MOUNT SPEAKER/STROBE
	ADA WALL MOUNT STROBE LIGHT
F	ADDRESSABLE DUAL ACTION PULL STATION W/ KEY RESET
S	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
Н	ADDRESSABLE HEAT DETECTOR
DS	ADDRESSABLE DUCT SMOKE DETECTOR W/ SAMPLING TUBE
RT	REMOTE TEST STATION
М	INTELLIGENT MONITORING MODULE
SD	SMOKE DAMPER
R	FLASHSCAN RELAY DAMPER
H _T	ADDRESSABLE 200° FIX-TEMP & R-O-R DETECTOR
С	ALARM CONTACT IN EXTINGUISHING SYSTEM. SYSTEM FURNISHED & INSTALLED BY DIVISION 21, WIRED BY DIVISION 26 & 28.
C _G	GENERAL ALARM CONDITION. FURNISHED & INSTALLED BY DIVISION 21, WIRED BY DIVISION 26 & 28.
R	INTELLIGENT RELAY
CO	CARBON MONOXIDE DETECTOR
M1	FLASHSCAN MONITOR MODULE
(TS)	TAMPER SWITCH
PS	PRESSURE SWITCH
FS	FLOW SWITCH
R	HVAC SHUTDOWN RELAY
	END OF LINE DECICTOR

FA RISER DIAGRAM

SCALE: AS NOTED

1
E302

Project Title:

Expansion and Renovate as New Project - PHASE 1 of 3

Crystal Lake Elementary School
284 Sandy Beach Road

Ellington, Connecticut 06029



SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

ISSUED FOR BIDDING NOV. 26, 2013 --

FA Riser Diagram

State Project Number: 048-0058 EA/RR/PS

Date:

JUNE 18, 2013

Scale:

AS NOTED

Drawn By:

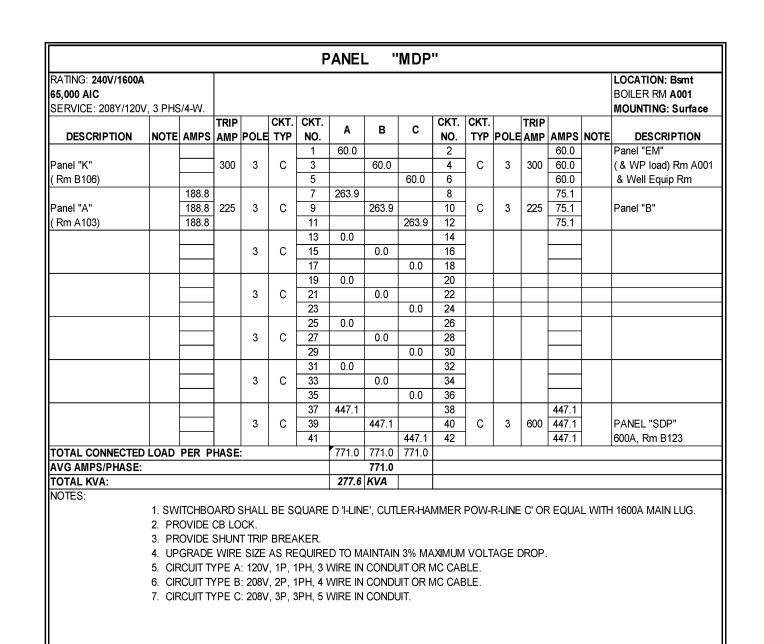
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Project Number:

Drawing Number:

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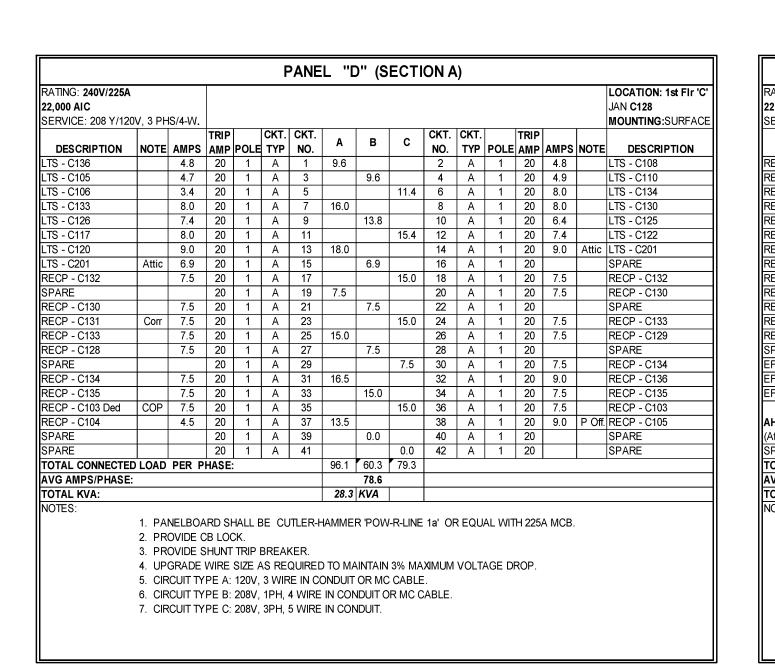


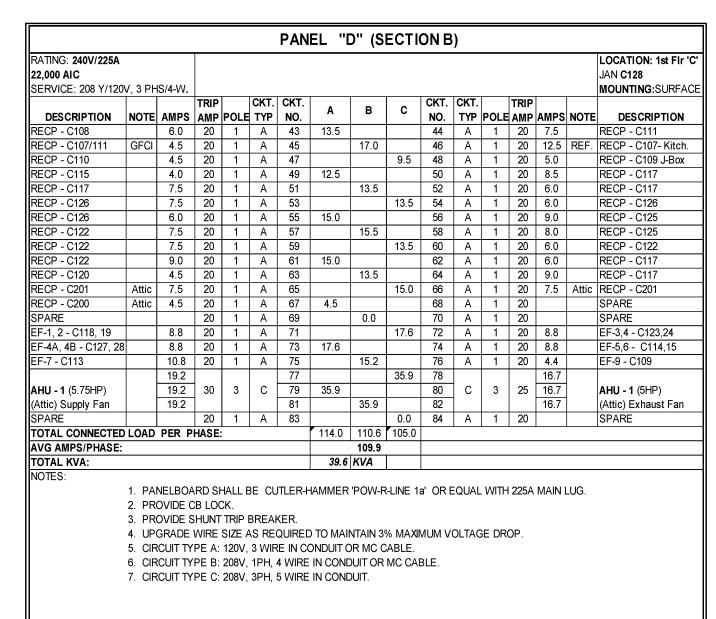
							PANE	L "	SDP"							
RATING: 240V/600A 65,000 AIC SERVICE: 208Y/120 ^V	V, 3 PH	S/4-W.														LOCATION: 1st FIr 'B' MECH RM B123 MOUNTING: SURFACI
DESCRIPTION	NOTE	AMPS	TRIP AMP	POLE	CKT. TYP	CKT. NO.	Α	В	С	CKT.	CKT. TYP		TRIP AMP	AMPS	NOTE	DESCRIPTION
		141.0				1	141.0			2	Α		20			SPARE
PANEL "L"		141.0	225	3	С	3		141.0		4	Α		20			SPARE
225A, Rm B123		141.0				5			141.0	6	Α		20			SPARE
SPARE			20		Α	7	200.0			8				200.0		
SPARE			21		Α	9		200.0		10	С	3	225	200.0		PANEL "D"
SPARE			22		Α	11			200.0	12				200.0		225A, Rm C128
SPARE			20	1	Α	13	0.0			14	Α	1	20			SPARE
SPARE			20	1	Α	15		0.0		16	Α	1	20			SPARE
SPARE			20	1	Α	17			0.0	18	Α	1	20			SPARE
		4.8				19	4.8			20	Α	1	20			SPARE
AHU - 11 (1.5HP)		4.8	20	3	С	21		4.8		22	Α	1	20			SPARE
(Rooftop) Locker	Supp.	4.8	1			23			4.8	24	Α	1	20			SPARE
		3.2				25	3.2			26	Α	1	20			SPARE
AHU - 10 (.75HP)		3.2	20	3	С	27		3.2		28	Α	1	20			SPARE
(Clg.) Mus. Rm B112	Supp.	3.2				29			3.2	30	Α	1	20			SPARE
		15.7				31	31.4			32				15.7		
AHU - 9 (5HP)		15.7	25	3	С	33		31.4		34	С	3	25	15.7		AHU - 9 (5HP)
(Rooftop) (GYM)	Supp.	15.7	1			35			31.4	36				15.7	Exh	(Clg Music Rm B112)
		65.3				37	98.1			38				32.8		,
AHU - 6 (8HP)		65.3	90	3	С	39		98.1		40	С	3	50	32.8	1	AHU - 8 (3.5HP)
(Rooftop)		65.3	1			41			98.1	42				32.8	1	(Rooftop)
TOTAL CONNECTED	LOAD	PER	PHASI	:			478.5	478.5	478.5							17
AVG AMPS/PHASE:								478.5								
TOTAL KVA:							172.3	KVA								
NOTES:								1	ı							
	 PR PR UP CIR CIR 	OVIDE (OVIDE : GRADE CUIT TY	CB LO SHUN WIRE (PE A (PE B	CK. I TRIP SIZE : 120V :208V,	BREA AS RE , 1P, 1 2P, 1I	KER. QUIRE Ph, 3 V PH, 4 V	D TO MA VIRE IN C VIRE IN C	INTAIN : CONDUI	3% MAX TOR MO	MUM Y	VOLTA .E.			EQUA	L WITH	H 600A MCB.

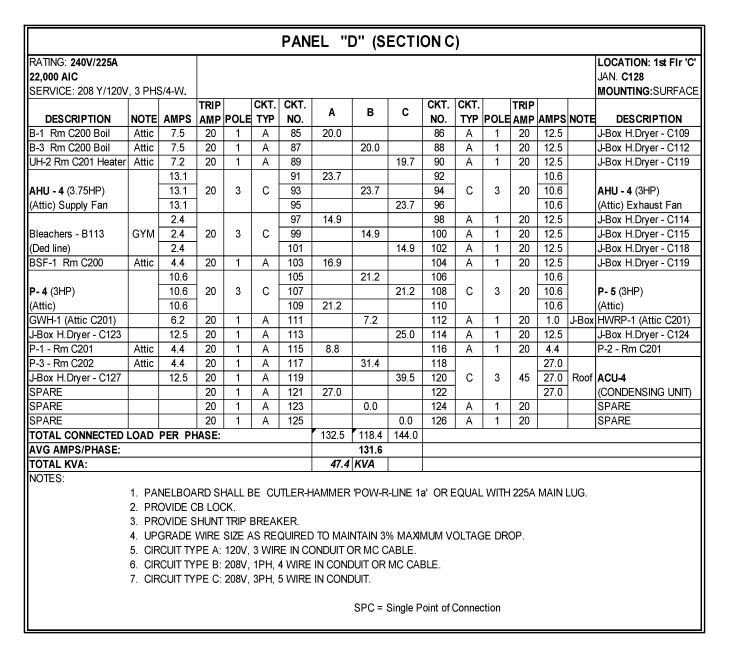
						PANE	EL '	'A'' (S	ECT	ION A	4)					
RATING: 240V/225A 22,000 AIC SERVICE: 208 Y/120)V, 3 PH	S/4-W.														LOCATION: 1st Fir 'A' COPY RM A103 MOUNTING: SURFACE
DESCRIPTION	NOTE	AMPS	TRIP AMP	POLE	CKT. TYP	CKT. NO.	Α	В	С	CKT. NO.	CKT.	1	TRIP AMP	AMPS	NOTE	DESCRIPTION
_TS - A131		6.4	20	1	Α	1	12.4			2	Α	1	20	6.0		LTS - A126
TS - A102		7.8	20	1	Α	3		14.4		4	Α	1	20	6.6		LTS - A103
TS - A124		8.0	20	1	Α	5			14.4	6	Α	1	20	6.4		LTS - A114
TS - B102		9.4	20	1	Α	7	15.8			8	Α	1	20	6.4		LTS - A131
SPARE			20	1	Α	9		0.0		10	Α	1	20			SPARE
RECP - A001		7.5	20	1	Α	11			12.0	12	Α	1	20	4.5		RECP - A001
I-BOX - A102	DW	8.3	20	1	Α	13	14.3			14	Α	1	20	6.0		RECP - A102
RECP - A102		4.5	20	1	Α	15		9.0		16	Α	1	20	4.5		RECP - A100
RECP - A100		9.0	20	1	Α	17			16.5	18	Α	1	20	7.5		RECP - A131
RECP - A131		4.5	20	1	Α	19	12.0			20	Α	1	20	7.5		RECP - A131
RECP - A130		4.5	20	1	Α	21		10.5		22	Α	1	20	6.0		RECP - A129
KILN	NEMA	44.2	50	2	В	23			50.2	24	Α	1	20	6.0		RECP - A126
Rm A130)		44.2				25	50.2			26	Α	1	20	6.0		RECP - A126
RECP - A128		6.0	20	1	Α	27		12.0		28	Α	1	20	6.0		RECP - A125
RECP - A124		6.0	20	1	Α	29			13.5	30	Α	1	20	7.5		RECP - A124
RECP - A114		4.5	20	1	Α	31	12.0			32	Α	1	20	7.5		RECP - A114
RECP - A114		6.0	20	1	Α	33		12.0		34	Α	1	20	6.0		RECP - A114
RECP - A106		4.5	20	1	Α	35			9.0	36	Α	1	20	4.5		RECP - A107
RECP - A103		7.5	20	1	Α	37	15.0			38	Α	1	20	7.5		RECP - A101
SPARE			20	1	Α	39		0.0		40	Α	1	20			SPARE
SPARE			20	1	Α	41			0.0	42	Α	1	20			SPARE
OTAL CONNECTED	LOAD	PER P	HASE:				131.7	57.9	115.6							
AVG AMPS/PHASE:								101.7								
TOTAL KVA:							36.6	KVA								
NOTES:	 PRO PRO UPO CIR CIR 	OVIDE COVIDE S GRADE V CUIT TY CUIT TY	B LOC HUNT WIRE PE A: PE B:	CK. TRIP I SIZE A 120V, 208V,	BREAH AS REG 3 WIR 1PH, G	KER. QUIRED E IN CO 4 WIRE	HAMMER TO MAI ONDUIT (IN CONE IN CONE	NTAIN 3 OR MC (DUIT OR	% MAX	IMUM V				МСВ.		

RATING: 240V/225A																LOCATION: 1st Fir 'A'
22.000 AIC																COPY RM A103
SERVICE: 208 Y/120\	/. 3 PH	IS/4-W.														MOUNTING: SURFACE
	,		TRIP		CKT.	CKT.	l <u>.</u>			CKT.	CKT.		TRIP			
DESCRIPTION	NOTE	AMPS		POLE	TYP	NO.	Α	В	С	NO.	TYP	POLE		AMPS	NOTE	DESCRIPTION
		46.1				43	78.9			44				32.8		
AHU-2 (16HP)		46.1	70	3	С	45		78.9		46	C	3	50	32.8	SPC	AHU-5 (3.5HP)
(Rooftop)		46.1				47			78.9	48				32.8		(Rooftop)
AC-1		7.0	20	2	В	49	14.0			50	В	2	20	7.0		AC-2
(Rooftop) Rm A126		7.0				51		14.0		52	1			7.0		(Rooftop) Rm B131
FCU-1 (AC-1 fan)		15.5	30	2	В	53			22.5	54	В	2	20	7.0		FCU-2 (AC-2 fan)
Rm. A104		15.5	1			55	22.5			56	1			7.0	1	Rm. A127
RECP - Rm A127	DED	1.0	20	1	Α	57		10.8		58	Α	1	20	9.8	Ded	SEP-1 Recp-Rm A001
AC-3			20	2	В	59			1.0	60	Α	1	20	1.0		J-Box SEP1-Cntr A001
(Rooftop) Rm A119						61	5.0			62	Α	1	20	5.0		J-Box - ESH1H A124
REF - A102		12.5	20	1	Α	63		25.0		64	Α	1	20	12.5		J-Box H.Dryer - A108
J-Box H.Dryer - A109		12.5	20	1	Α	65			25.0	66	Α	1	20	12.5		J-Box H.Dryer - A111
J-Box H.Dryer - A112		12.5	20	1	Α	67	25.0			68	Α	1	20	12.5		J-Box H.Dryer - A127
SPARE			20	1	Α	69		0.0		70	Α	1	20			SPARE
SPARE			20	1	Α	71			0.0	72	Α	1	20			SPARE
SPARE			20	1	Α	73	0.0			74	Α	1	20			SPARE
SPARE			20	1	Α	75		0.0		76	Α	1	20			SPARE
SPARE			20	1	Α	77			0.0	78	Α	1	20			SPARE
SPARE			20	1	Α	79	0.0			80	Α	1	20			SPARE
SPARE			20	1	Α	81		0.0		82	Α	1	20			SPARE
SPARE			20	1	Α	83			0.0	84		1	20			SPARE
TOTAL CONNECTED	LOAD	PER P	HASE				145.4	128.7	127.4		1					
AVG AMPS/PHASE:								133.8								
TOTAL KVA:							48.2	KVA								
	 PR PR UP CIR CIR 	OVIDE (OVIDE S GRADE CUIT TY	CB LOC SHUNT WIRE PE A: PE B:	CK. TRIP SIZE A 120V, 208V,	BREAI AS RE 3 WIF 1PH,	KER. QUIRED RE IN CO 4 WIRE	HAMMER TO MAI ONDUIT (IN CONI	NTAIN 39 OR MC C DUIT OR	% MAXI ABLE.	MUM V				MAIN	LUG.	
									SPC=	Single	Point o	f Conn	ection	I		

22,000 AIC SERVICE: 208 Y/120	\/ 3 P⊢	IS/4-\//														IT RM A119 MOUNTING: FLUSH
DESCRIPTION		AMPS	TRIP AMP	POLE	CKT.	CKT.	А	В	С	CKT.			TRIP AMP	AMPS NO		
LTS - A123		6.4	20	1	Α	1	12.8			2	Α	1	20	6.4		LTS - A122
LTS - A121		6.4	20	1	Α	3		12.8		4	Α	1	20	6.4		LTS - A115
LTS - A115		6.4	20	1	Α	5			14.8	6	Α	1	20	8.4		LTS - A117
LTS - A113	Corr	12.0	25	1	Α	7	17.4			8	Α	1	20	5.4		LTS - C131
LTS - C132		8.0	20	1	Α	9		16.0		10	Α	1	20	8.0		LTS - C130
SPARE			20	1	Α	11			0.0	12	Α	1	20			SPARE
RECP- A123		3.0	20	1	Α	13	10.5			14	Α	1	20	7.5		RECP - A123
RECP- A123		6.0	20	1	Α	15		9.0		16	Α	1	20	3.0		RECP - A122
RECP- A122		7.5	20	1	Α	17			13.5	18	Α	1	20	6.0		RECP - A122
RECP- A121		3.0	20	1	Α	19	10.5			20	Α	1	20	7.5	$\overline{}$	RECP - A121
RECP- A121		6.0	20	1	Α	21		12.0		22	Α	1	20	6.0		RECP - A115
RECP- A115		7.5	20	1	Α	23			13.5	24	Α	1	20	6.0		RECP - A115
RECP- A115		4.5	20	1	Α	25	12.0			26	Α	1	20	7.5		RECP - A115
RECP- A116		6.0	20	1	Α	27		10.5		28	Α	1	20	4.5		RECP - A116
RECP- A116		7.5	20	1	Α	29			13.5	30	Α	1	20	6.0		RECP - A117
RECP- A117		4.5	20	1	Α	31	12.0			32	Α	1	20	7.5		RECP - A117
RECP- A117		4.5	20	1	Α	33		9.5		34	Α	1	20	5.0		RECP - A119
RECP- A119		5.0	20	1	Α	35			11.0	36	Α	1	20	6.0		RECP - A118
RECP- A118		6.0	20	1	Α	37	12.0			38	Α	1	20	6.0		RECP - C146
SPARE			20	1	Α	39		0.0		40	Α	1	20			SPARE
SPARE			20	1	Α	41			0.0	42	Α	1	20			SPARE
TOTAL CONNECTE	LOAD	PER P	HASE:				87.2	69.8	66.3							
AVG AMPS/PHASE								74.4								
TOTAL KVA:							26.8	KVA								
NOTES:	 PR PR UP CIR CIR 	OVIDE COVIDE S OVIDE S GRADE ' CUIT TY	B LOC HUNT WIRE PE A: PE B:	CK. TRIP I SIZE A 120V, 208V,	BREAK AS REG 3 WIR 1PH, 4	KER. QUIRED RE IN CO 4 WIRE	HAMMER TO MAII DNDUIT (IN CONE IN CONE	NTAIN 3 OR MC (OUIT OR	% MAXI CABLE.	MUM V				MCB.		







						PAN	EL "l	_" (S	ECTI	ON A	()					
RATING: 240V/225A																LOCATION: 1st Fir 'B
22,000 AIC																MECH RM B123
SERVICE: 208 Y/120	V, 3 Pł	HS/4-W.														MOUNTING:SURFACI
			TRIP		CKT.	CKT.	А	В	С	CKT.	CKT.		TRIP	1		
DESCRIPTION	NOTE	AMPS				NO.				NO.					NOTE	
LTS - B130		11.2	20	1	Α	1	20.9			2	Α	1	20	9.7		LTS - B129
LTS - B127		5.9	20	1	Α	3		14.1		4	Α	1	20	8.2		LTS - B119
LTS - C143		8.3	20	1	Α	5			16.9	6	Α	1	20	8.6		LTS - C142
FACP - B123		6.0	20	1	Α	7	16.8			8	Α	1	20	10.8		LTS Gym Contactor
LTS - B110		8.3	20	1	Α	9		19.1		10	Α	1	20	10.8		LTS Gym Contactor
LTS - C141 MedRead		4.7	20	1	Α	11			8.7	12	A	1	20	4.0		LTS Lobby C101
RECP - B131		5.0	20	1	Α	13	10.0			14	A	1	20	5.0		RECP - B131
RECP - B131		5.0	20	1	Α	15		14.0		16	Α	1	20	9.0		RECP - B102
RECP - B102		4.5	20	1	A	17	40.5		13.5	18	A	1	20	9.0		RECP - B130
RECP - B130		9.0	20	1	A	19	16.5	40.0		20	A	1	20	7.5		RECP - B130
RECP - B130		6.0	20	1	A	21		12.0	40.0	22	A	1	20	6.0		RECP - B130
RECP - B130		6.0	20	1	Α	23	40.5		12.0	24	A	1	20	6.0	LRox	RECP - B130
RECP - B130		6.0	20	1	Α	25	10.5	40.0		26	A	1	20	4.5		RECP - Media Kitch
RECP - Media Kitc.		6.0	20	1	A	27		12.0	40.0	28	A	1	20	6.0		RECP - Media B129
RECP - Media B129		6.0	20	1	Α	29	40.5		12.0	30	A	1	20	6.0	ED.	RECP - Media B129
RECP - Media B129		7.5	20	1	A	31	13.5	45.0		32	A	1	20	6.0	FBox	RECP - Media B129
RECP - Media B129 RECP - C141	FBOX	6.0 4.5	20	1	A	33 35		15.0	12.0	34 36	A	1	20	9.0 7.5		RECP - C141
RECP - C141 RECP - C139		6.0	20	1	A	37	12.0		12.0	38	A	1	20	6.0		RECP - C140 RECP - C137
SPARE		0.0	20	1	A	39	12.0	0.0		40	A	1	20	0.0		SPARE
SPARE SPARE			20	1	A	41		0.0	0.0	40	A	1	20			SPARE
TOTAL CONNECTED		DED D			A	41	100.2	86.2	75.1	42	A		20			SPARE
AVG AMPS/PHASE:		PERF	THASE				100.2	87.2	75.1							
TOTAL KVA:							21 /	KVA	I							
NOTES:							31.4	AVA								
NOTES:	4 54	NEL DO			NE 01			IDOM I		-I OD		1 14/17		MOD		
					SE UU	IILEK-F	HAMMER	PUVV-F	K-LINE	a OR	EQUA	L VVIII	1 225/4	NICB.		
		OVIDE (/ED										
		OVIDE S					TO MANU	NITA INI A	0/ 8/8 3/		OL TA	2E DD	OD.			
							IAM OT C			IVIUIVI V	OLIA	JE DK	OP.			
				,) TIUDNC			DIE						
				,	,		IN CONE		IVIC CA	BLE.						
	/. CIF	CUII IY	PE C:	∠∪8V,	JPH,	o WIKE	IN CONE	JUH.								

RATING: 240V/225A																LOCATION: 1st Fir 'I
22,000 AIC																MECH RM B123
SERVICE: 208 Y/120	V, 3 P⊢	IS/4-W.														MOUNTING:SURFA
DESCRIPTION	NOTE	AMPS	TRIP AMP	POLE		CKT. NO.	А	В	С	CKT. NO.	CKT. TYP		TRIP AMP	AMPS	NOTE	DESCRIPTION
RECP - C137		4.5	20	1	Α	43	12.0			44	Α	1	20	7.5		RECP - C143
RECP - C144		6.0	20	1	Α	45		18.5		46	Α	1	20	12.5		J-Box H.Dryer - B120
J-Box H.Dryer - B126		12.5	20	1	Α	47			17.5	48	Α	1	20	5.0		RECP - B123
RECP - B120		4.0	20	1	Α	49	11.5			50	Α	1	20	7.5		RECP - B125
RECP - B124		6.0	20	1	Α	51		15.0		52	Α	1	20	9.0		RECP - B122
RECP - B113	Gym	6.0	20	1	Α	53			12.0	54	Α	1	20	6.0	Gym	Ded Circ - B113 HOC
RECP - B113	Gym	6.0	20	1	Α	55	12.0			56	Α	1	20	6.0	Gym	Ded Circ - B113 HOC
RECP - B113	Gym	6.0	20	1	Α	57		12.0		58	Α	1	20	6.0		RECP - B119
RECP - B116		7.5	20	1	Α	59			12.0	60	Α	1	20	4.5	PCLab	RECP - B130
RECP - B112	Mus	7.5	20	1	Α	61	15.0			62	Α	1	20	7.5		RECP - B112
RECP - B102		4.5	20	1	Α	63		17.0		64	Α	1	20	12.5		J-Box H.Dryer - B117
EF-10,11 - B120, 117		8.8	20	1	Α	65			17.6	66	Α	1	20	8.8		EF-12,13 - B117,115
EF-14,15 - A127, 108		7.0	20	1	Α	67	11.4			68	Α	1	20	4.4		EF-16 - B126
LTS GYM Contactor		9.9	20	1	Α	69		19.8		70	Α	1	20	9.9		LTS GYM Contactor
RECP Scoreboard	Ded	1.6	20	1	Α	71			26.6	72	В	2	25	25.0		RECEP Twist-lock
RECEP Twist-lock		25.0	30	2	В	73	50.0			74	1			25.0	1	Rm B131
Rm B131		25.0				75		35.0		76	Α	1	20	10.0		RECP - B131
RECP - B131		5.0	20	1	Α	77			15.0	78	Α	1	20	10.0		RECP - B131
RECP - B112		3.0	20	1	Α	79	3.0			80	Α	1	20			SPARE
SPARE			20	1	Α	81		0.0		82	Α	1	20			SPARE
SPARE			20	1	Α	83			0.0	84	Α	1	20			SPARE
TOTAL CONNECTED	LOAD	PER P	HASE	:			114.9	117.3	100.7							
AVG AMPS/PHASE:								111.0								
TOTAL KVA:							39.9	KVA								
NOTES:	2. PR	NELBOA OVIDE O	B LO	CK.			HAMMER		R-LINE 1	a' OR E	EQUAL	. WITH	I 225A	MAIN I	LUG.	
	4. UP	GRADE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP.														
							O TIUDNC									
							IN COND		MC CA	BLE.						
	7. CIR	CUIT TY	PE C:	208V,	3PH,	5 WIRE	IN CONE	DUIT.								

RATING: 240V/225A 22,000 AIC SERVICE: 208 Y/120)V, 3 P⊢	IS/4-W.														LOCATION: WEB Well Equip Bldg MOUNTING:SURFACI
DESCRIPTION	NOTE	AMPS	TRIP AMP	POLE	CKT.	CKT. NO.	Α	В	С	CKT.	CKT. TYP		TRIP AMP	AMPS	NOTE	DESCRIPTION
Exist Load			20	1	Α	1	0.0			2	Α	1	20			Exist Load
Exist Load			20	1	Α	3		0.0		4	Α	1	20			Exist Load
Exist Load			20	1	Α	5			0.0	6	Α	1	20			Exist Load
Exist Load			20	1	Α	7	0.0			8	Α	1	20			Exist Load
Exist Load			20	1	Α	9		0.0		10	Α	1	20			Exist Load
Exist Load			20	1	Α	11			0.0	12	Α	1	20			Exist Load
Exist Load			20	1	Α	13	0.0			14	Α	1	20			Exist Load
Exist Load			20	1	Α	15		0.0		16	Α	1	20			Exist Load
Exist Load			20	1	Α	17			0.0	18	Α	1	20			Exist Load
Exist Load			20	1	Α	19	0.0			20	A	1	20			Exist Load
SPARE			20	1	Α	21		0.0		22	Α	1	20			SPARE
SPARE			20	1	Α	23			0.0	24	Α	1	20			SPARE
SPARE			20	1	Α	25	0.0			26	Α	1	20			SPARE
SPARE			20	1	Α	27		0.0		28	Α	1	20			SPARE
SPARE			20	1	Α	29			0.0	30	Α	1	20			SPARE
SPARE			20	1	Α	31	0.0			32	Α	1	20			SPARE
SPARE			20	1	Α	33		0.0		34	Α	1	20			SPARE
SPARE			20	1	Α	35			0.0	36	Α	1	20			SPARE
SPARE			20	1	Α	37	0.0			38	Α	1	20			SPARE
SPARE			20	1	Α	39		0.0		40	Α	1	20			SPARE
SPARE			20	1	Α	41			0.0	42	Α	1	20			SPARE
TOTAL CONNECTE	LOAD	PER P	HASE:				0.0	0.0	0.0							1
AVG AMPS/PHASE:								0.0								
TOTAL KVA:							0.0 KVA									
NOTES:	 PR PR UP CIF CIF 	NELBOA OVIDE S OVIDE S GRADE ' RCUIT TY RCUIT TY	B LOC HUNT WIRE PE A: PE B:	CK. TRIP SIZE A 120V, 208V,	BREAI AS REG 3 WIR 1PH,	KER. QUIRED RE IN CO 4 WIRE	O TO MA ONDUIT IN COM	NINTAIN OR MC	3% MA	.XIMUM E.				A MCB.		

TRIF MPS AMF 3.8 20 5.8 20 3.5 20 20 7.5 20 6.0 20 7.5 20 9.0 20 0.8 0.8 20 0.8 3.2 20 5.0 20	1	CKT. TYP A A A A A A A A A A A A A A A A A	NO. 1 3 5 7 9 11 13 15 17 19 21 23 25	18.1 0.0 12.0	15.1 0.0 15.0	3.5 13.5 15.0	CKT. NO. 2 4 6 8 10 12 14 16 18 20 22	CKT. TYP A A A A A A A A A	POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20	6.0 7.5 6.0 6.0	Strg. Kitch Kitch Cafet.	LTS - B105 LTS - B105 LTS LTS LTS RECP - B108 RECP - B106 RECP - B107 RECP - B105 RECP - B105										
MPS AMF 3.8 20 5.8 20 3.5 20 20 7.5 20 6.0 20 7.5 20 9.0 20 0.8 20 0.8 20 0.8 20 0.8 20 0.8 20 0.8 20 0.8 20	POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A A A A A A A C C	NO. 1 3 5 7 9 11 13 15 17 19 21 23 25	18.1	0.0	3.5 13.5	NO. 2 4 6 8 10 12 14 16 18 20 22	TYP A A A A A A A A A A A A A A A A A A A	1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	9.3 9.3 6.0 6.0 7.5 6.0 6.0	Strg. Kitch Kitch Cafet.	LTS - B105 LTS - B105 LTS LTS LTS RECP - B108 RECP - B106 RECP - B107 RECP - B105 RECP - B105										
5.8 20 3.5 20 20 20 7.5 20 6.0 20 7.5 20 9.0 20 6.0 20 0.8 20 0.8 20 0.8 20 0.8 20 0.8 20 0.8 20	1 1 1 1 1 1 1 1 1 3	A A A A A A C	3 5 7 9 11 13 15 17 19 21 23 25	12.0	0.0	13.5	4 6 8 10 12 14 16 18 20 22	A A A A A A A	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20	9.3 6.0 6.0 7.5 6.0 6.0	Kitch Kitch Cafet.	LTS - B105 LTS LTS LTS LTS RECP - B108 RECP - B106 RECP - B107 RECP - B105 RECP - B105										
3.5 20 20 20 7.5 20 6.0 20 7.5 20 9.0 20 6.0 20 0.8 20 0.8 20 0.8 3.2 20 5.0 20	1 1 1 1 1 1 1 1 3	A A A A A A C	5 7 9 11 13 15 17 19 21 23 25	12.0	0.0	13.5	6 8 10 12 14 16 18 20 22	A A A A A A	1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20	6.0 6.0 7.5 6.0 6.0	Kitch Kitch Cafet.	LTS LTS LTS RECP - B108 RECP - B106 RECP - B107 RECP - B105 RECP - B105										
20 7.5 20 3.0 20 7.5 20 9.0 20 3.0 20 0.8 20 0.8 20 0.8 3.2 20 5.0 20	1 1 1 1 1 1 1 3	A A A A A C	7 9 11 13 15 17 19 21 23 25	12.0	15.0	13.5	8 10 12 14 16 18 20 22	A A A A A	1 1 1 1 1 1	20 20 20 20 20 20 20 20	6.0 7.5 6.0 6.0	Kitch Kitch Cafet.	LTS LTS RECP - B108 RECP - B106 RECP - B107 RECP - B105 RECP - B105										
7.5 20 3.0 20 7.5 20 9.0 20 3.0 20 0.8 20 0.8 20 0.8 3.2 20 5.0 20	1 1 1 1 1 1 3	A A A A A	9 11 13 15 17 19 21 23 25	12.0	15.0	15.0	10 12 14 16 18 20 22	A A A A A	1 1 1 1 1 1	20 20 20 20 20 20 20	6.0 7.5 6.0 6.0	Kitch Kitch Cafet.	LTS RECP - B108 RECP - B106 RECP - B107 RECP - B105 RECP - B105										
7.5 20 3.0 20 7.5 20 9.0 20 3.0 20 0.8 20 0.8 20 0.8 20 0.8 20 0.8 20 0.8 20 0.8 20 0.8 20	1 1 1 1 1 3	A A A A C	11 13 15 17 19 21 23 25	12.0	15.0	15.0	12 14 16 18 20 22	A A A A	1 1 1 1	20 20 20 20 20 20	6.0 7.5 6.0 6.0	Kitch Kitch Cafet.	RECP - B108 RECP - B106 RECP - B107 RECP - B105 RECP - B105										
3.0 20 7.5 20 9.0 20 3.0 20 0.8 20 0.8 20 5.2 20 5.0 20	1 1 1 1 3	A A A C	13 15 17 19 21 23 25	12.0		15.0	14 16 18 20 22	A A A	1 1 1	20 20 20 20	6.0 7.5 6.0 6.0	Kitch Kitch Cafet.	RECP - B106 RECP - B107 RECP - B105 RECP - B105										
7.5 20 9.0 20 3.0 20 0.8 20 0.8 20 0.8 20 5.0 20	1 1 1 3	A A A	15 17 19 21 23 25	12.0			16 18 20 22	A A A	1 1 1	20 20 20	7.5 6.0 6.0	Kitch Cafet.	RECP - B107 RECP - B105 RECP - B105										
9.0 20 3.0 20 0.8 20 0.8 20 0.8 20 5.0 20	3	A A C	17 19 21 23 25				18 20 22	A	1	20 20	6.0 6.0	Cafet.	RECP - B105 RECP - B105										
5.0 20 0.8 20 0.8 20 0.8 20 6.2 20 5.0 20	3	A C	19 21 23 25		15.2		20 22	Α	1	20	6.0		RECP - B105										
0.8 0.8 0.8 0.8 20 0.8 3.2 20 5.0 20	3	С	21 23 25		15.2	20.6	22					Cafet.											
0.8 20 0.8 20 5.2 20 5.0 20	1		23	24.6	15.2	20.6		Α	1														
0.8 5.2 20 5.0 20	1		25	24.6		20.6	24			20	4.4		CEF-1 . Kitch RmB1										
3.2 20 5.0 20		Α		24.6			24	A	1	20	9.8		KEF-1 B106										
5.0 20		Α	07				26	Α	1	20	13.8		KEF-2 B106										
	1		27		6.2		28	Α	1	20			SPARE										
		Α	29			14.8	30	Α	1	20	9.8	Roof	CHF - Kitchen										
20	1	Α	31	0.0			32	Α	1	20			SPARE										
20	1	Α	33		0.0		34	Α	1	20			SPARE										
20	1	Α	35			0.0	36	Α	1	20			SPARE										
0.0			37	10.0			38	Α	1	20			SPARE										
0.0 20	3	С	39		10.0		40	Α	1	20			SPARE										
0.0			41			10.0	42	Α	1	20			SPARE										
R PHASE	:		•	76.7	61.5	77.4		•				•	•										
					71.9																		
				25.9	KVA																		
IDE CB LO IDE SHUN' ADE WIRE IT TYPE A IT TYPE B	CK. I TRIP SIZE <i>I</i> : 120V, : 208V,	BREAI AS RE , 3 WIF , 1PH,	KER. QUIREI RE IN CO 4 WIRE	O TO MA ONDUIT	AINTAIN OR MC	3% MA CABLE	XIMUM E.				A MCB.												
AI TI	DE WIRE TYPE A TYPE B	DE WIRE SIZE A TYPE A: 120V TYPE B: 208V	DE WIRE SIZE AS RE TYPE A: 120V, 3 WIF TYPE B: 208V, 1PH,	TYPE A: 120V, 3 WIRE IN CO TYPE B: 208V, 1PH, 4 WIRE	DE WIRE SIZE AS REQUIRED TO MA TYPE A: 120V, 3 WIRE IN CONDUIT TYPE B: 208V, 1PH, 4 WIRE IN CON	DE WIRE SIZE AS REQUIRED TO MAINTAIN TYPE A: 120V, 3 WIRE IN CONDUIT OR MC	DE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAITYPE A: 120V, 3 WIRE IN CONDUIT OR MC CABLE TYPE B: 208V, 1PH, 4 WIRE IN CONDUIT OR MC CTYPE C: 208V, 3PH, 5 WIRE IN CONDUIT.	DE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM TYPE A: 120V, 3 WIRE IN CONDUIT OR MC CABLE. TYPE B: 208V, 1PH, 4 WIRE IN CONDUIT OR MC CABLE. TYPE C: 208V, 3PH, 5 WIRE IN CONDUIT.	DE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLT, TYPE A: 120V, 3 WIRE IN CONDUIT OR MC CABLE. TYPE B: 208V, 1PH, 4 WIRE IN CONDUIT OR MC CABLE. TYPE C: 208V, 3PH, 5 WIRE IN CONDUIT.	DE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DI TYPE A: 120V, 3 WIRE IN CONDUIT OR MC CABLE. TYPE B: 208V, 1PH, 4 WIRE IN CONDUIT OR MC CABLE. TYPE C: 208V, 3PH, 5 WIRE IN CONDUIT.	DE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP. TYPE A: 120V, 3 WIRE IN CONDUIT OR MC CABLE. TYPE B: 208V, 1PH, 4 WIRE IN CONDUIT OR MC CABLE.	DE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP. TYPE A: 120V, 3 WIRE IN CONDUIT OR MC CABLE. TYPE B: 208V, 1PH, 4 WIRE IN CONDUIT OR MC CABLE. TYPE C: 208V, 3PH, 5 WIRE IN CONDUIT.	IT TRIP BREAKER. E SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP. A: 120V, 3 WIRE IN CONDUIT OR MC CABLE. B: 208V, 1PH, 4 WIRE IN CONDUIT OR MC CABLE. C: 208V, 3PH, 5 WIRE IN CONDUIT.										

RATING: 240V/300A 22,000 AIC SERVICE: 208 Y/120V,	3 PHS/	4VV.													LOCATION: 1st Fir 'B' RM B106 MOUNTING:SURFACE	
DESCRIPTION	NOTE	AMPS	TRIP AMP	POLE	CKT. TYP	CKT. NO.	Α	В	С	CKT. NO.	1	1	TRIP AMP	AMPS	NOTE	DESCRIPTION
Dishwasher (6) (2HP)		7.5 7.5 7.5	60	3	С	43 45 47	10.7	10.7	10.7	44 46 48	С	3	20	3.2 3.2 3.2	-	Waste Collector (7B) (3/4 HP)
Walk-In Freezer Freezer Evaporator coil		5.5	20	1 2	A B	4 9	18.9	28.1		50 52	В	2	30	13.4	1.2A 1.2A	Freezer Evaporator coil
(9A) Condensor		14.7	30	2	В	53 55	70.0	20.1	69.7	54 56	В	2	70	55.0	1.27	Freezer (9B-f) 10HP
(9B-c) 2.5HP		15.0		_		57	70.0	20.4	00.0	58	В	2	20	5.4		Air Curtain
Proofer, Hold.Cab. (18) Oven Conv. Gas (19)	8. 8.	17.6 6.0	30 20	1	A	59 61	12.0		23.0	60 62	Α	1	20	5.4 6.0	8.	(16) 1/2HP Oven Conv. Gas (19)
Steamer Boil. Gas (23) Steamer Boil. Gas (23)		15.0 15.0	30 30	1	A	63 65		30.0	16.5	64 66	A	1	30 20	15.0 1.5	8.	Steamer Boil. Gas (23) Tilt Skillet (25A)
Walk - In Cooler (28)		10.0 10.0	20	1	Α	67 69	10.6	10.6		68 70	В	2	20	0.6		Walk-In C Evap (28A)
Walk-In C. Cond. (28B) (1 1/4HP)		10.0	20	3	С	71 73	20.0		19.8	72 74	A	1	20 20	9.8		Drop -In Frost top (34B) Drop -In Hot Wells (34D)
Cash Register (35) SPARE		4.0	20 20	1	A A	75 77		14.0	0.0	76 78	A	1	20 20	10.0		Milk Cooler (37)
SPARE SPARE			20	1	A	79 81	0.0	0.0	0.0	80 82	A	1 1	20			SPARE SPARE
SPARE		ED DI	20	1	A	83	(140.0		0.0	84	A	1	20			SPARE
TOTAL CONNECTED L AVG AMPS/PHASE:	OAD P	ER PH	ASE:				142.2	131.9	139.7							
TOTAL KVA: NOTES:	 PR PR UP CIR CIR CIR 	NELBO/ OVIDE (OVIDE (GRADE CUIT TY CUIT TY	CB LOC SHUNT WIRE 'PE A: 'PE B: 'PE C:	CK. TRIP SIZE # 120V, 208V, 208V,	BREAK AS REG 3 WIRI 1PH, 4 3PH, 5	ER. QUIRED E IN CO WIRE WIRE	TO MA INDUIT IN CON IN CON	R 'POW INTAIN OR MO IDUIT (I 3% M C CABL DR MC	AXIMUI .E. CABLE	M VOL	TAGE			IN LUG	S.

RATING: 240V/300A 22,000 AIC SERVICE: 208 Y/120\	/, 3 PH	IS/4-W.														LOCATION: Bsmt BOILER RM A001 MOUNTING:SURFACE
DESCRIPTION	NOTE	AMPS	TRIP	POLE	CKT.	CKT. NO.	А	В	С	CKT.		POI F	TRIP	AMPS	NOTE	DESCRIPTION
LTS - Out, undercnpy	_	5.6	20	1	A	1	12.6			2	A	1	20	7.0		LTS - Out 'OSF' - NEst
LTS - Courtyard 'OSF'		4.9	20	1	A	3	12.5	11.9		4	A	1	20	7.0		LTS - Out 'OSF' - SWst
LTS - Out 'OSF'- NW		4.2	20	1	Α	5			7.3	6	A	1	20	3.1		LTS - Corr A113
LTS - Ramp C131		2.8	20	1	Α	7	5.6			8	A	1	20	2.8		LTS - Corr C142/ B110
LTS - Out Vest C100	LCD	1.4	20	1	Α	9		8.6		10	A	1	20	7.2		LTS Gym B113
EXITS		10.0	20	1	Α	11			10.0	12	A	1	20			SPARE
LTS - C141 MedRead		7.0	20	1	Α	13	17.0			14	Α	1	20	10.0		EXITS
SPARE		6.4	20	1	Α	15		6.4		16	Α	1	20			SPARE
Rms w/ UL924		6.5	20	1	Α	17			13.0	18	Α	1	20	6.5		Rms w/ UL924
Rms w/ UL924		6.5	20	1	Α	19	13.0			20	Α	1	20	6.5		Rms w/ UL924
Rms w/ UL924		6.5	20	1	Α	21		13.0		22	Α	1	20	6.5		Rms w/ UL924
SPARE			20	1	Α	23			0.0	24	Α	1	20			SPARE
SPARE			20	1	Α	25	0.0			26	Α	1	20			SPARE
SPARE			20	1	Α	27		0.0		28	Α	1	20			SPARE
SPARE			20	1	Α	29			0.0	30	Α	1	20			SPARE
SPARE			20	1	Α	31	0.0			32	Α	1	20			SPARE
SPARE			20	1	Α	33		0.0		34	Α	1	20			SPARE
SPARE			20	1	Α	35			0.0	36	Α	1	20			SPARE
SPARE			20	1	Α	37	0.0			38	Α	1	20			SPARE
SPARE			20	1	Α	39		0.0		40	Α	1	20			SPARE
SPARE			20	1	Α	41			0.0	42	Α	1	20			SPARE
TOTAL CONNECTED	LOAD	PER P	HASE:				48.2	39.9	30.3							
AVG AMPS/PHASE:								39.5								
TOTAL KVA:							14.2	KVA								
NOTES:	KER. QUIRED E IN CO 4 WIRE	HAMMEI TO MA ONDUIT IN CON	R 'POW MINTAIN OR MC MDUIT O	3% MA CABLE	XIMUM :.				A MCB.							

						PANE	L "E	M" (S	SECT	ION	B)					
RATING: 240V/300A																LOCATION: Bsmt
22,000 AIC																BOILER RM A001
SERVICE: 208 Y/120	0V, 3 PH	IS/4-W.														MOUNTING:SURFACE
			TRIP		CKT.	CKT.	Α	В	С	CKT.		1	TRIP			
DESCRIPTION LTS	NOTE	AMPS		POLE	TYP	NO.		-		NO.	TYP	POLE		AMPS	NOTE	
LTS			20	1	Α	43	0.0			44	Α	1	20			LTS
LTS			20	1	Α	45		0.0		46	Α	1	20			LTS
LTS LTS			20	1	Α	47			0.0	48	Α	1	20			LTS
LTS			20	1	Α	49	0.0			50	Α	1	20			LTS
LTS			20	1	Α	51		0.0		52	Α	1	20			LTS
RECP -			20	1	Α	53			0.0	54	Α	1	20			RECP -
RECP -			20	1	Α	55	0.0			56	Α	1	20			RECP -
RECP -			20	1	Α	57		0.0		58	Α	1	20			RECP -
RECP -			20	1	Α	59			0.0	60	Α	1	20			RECP -
RECP -			20	1	Α	61	0.0			62	Α	1	20			RECP -
RECP -			20	1	Α	63		0.0		64	Α	1	20			RECP -
SPARE			20	1	Α	65			0.0	66	Α	1	20			SPARE
SPARE			20	1	Α	67	0.0			68	Α	1	20			SPARE
SPARE			20	1	Α	69		0.0		70	Α	1	20			SPARE
SPARE			20	1	Α	71			0.0	72	Α	1	20			SPARE
SPARE			20	1	Α	73	0.0			74	Α	1	20			SPARE
SPARE			20	1	Α	75		0.0		76	Α	1	20			SPARE
SPARE			20	1	Α	77			0.0	78	Α	1	20			SPARE
SPARE			20	1	Α	79	0.0			80	Α	1	20			SPARE
SPARE			20	1	Α	81		0.0		82	Α	1	20			SPARE
SPARE			20	1	Α	83			0.0	84	Α	1	20			SPARE
TOTAL CONNECTE	DLOAD	PER P	HASE	:			0.0	0.0	0.0						ı	
AVG AMPS/PHASE	:							0.0								
TOTAL KVA:							0.0	KVA								
NOTES:									l							
	1. PA	NELBOA	ARD SI	HALL E	BE CL	JTLER-H	HAMMER	POW-R	-LINE 1	a' OR E	EQUAL	_ WITH	300A	MAIN I	LUG.	
		OVIDE (_								, -, -,					
		OVIDE S	_		BREAI	KER.										
							TO MAI	NTAIN 39	% MAXI	MUM V	OI TAC	GE DRO	ΩP			
	_	-		-	-		ONDUIT (
							IN CONE			BLF						
							IN CONE			 .						
	7. OII	COII II	. L O.	200V,	JI 11,	O VVII\L	II V OOINL	JUI 1.								



Expansion and Renovate as New Project - PHASE 1 of 3

Ellington, Connecticut 06029

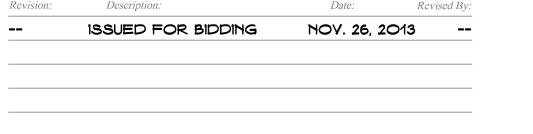
Crystal Lake Elementary School
284 Sandy Beach Road



SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 *silverpetrucelli.com*



PANEL SCHEDULES

Date:

JUNE 18, 2013

Scale:

AS NOTED

Drawn By:

MS-ELE ENG

Project Number:

12.140

State Project Number: 048-0058 EA/RR/PS

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Serves Area/Rm:	Location	SYMBOL	VOLTAGE	PHASE	CIRCUIT AMPS	BREAKER	PANEL CIRCUIT	HP/FLA	CONNECTION	
OT/PT Rm A126	ROOFTOP	AC-1/ ACU-1	208	1	20	20A/2P	A-49,51	7A	PROVIDE NEMA-3R N-F DISCONNECT	3
Main Equip Rm B131	ROOFTOP	AC-2/ ACU-2	208	1	20	20A/2P	A-50,52	7A	PROVIDE NEMA-3R N-F DISCONNECT	3
TELE/DATA Rm A119	ROOFTOP	AC-3/ ACU-3	208	1	20	20A/2P	A-59,61	7A	PROVIDE NEMA-3R N-F DISCONNECT	3
CLASSRMS ADD WING C	ATTIC	AHU-1	208	3	30	30A/3P	D-77,79,81	5.75HP/19.2	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
EXIST CLASSRMS WING B	ROOFTOP	AHU-2	208	3	70	70A/3P	A-43,45,47	16HP/46.1A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
ADMIN AREA ADDITION	ATTIC	AHU-4	208	3	20	20A/3P	D-78,80,82	3.5HP/13.1A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
STAFF Rm/RES. STAFF LOUNGE	ROOFTOP	AHU-5	208	3	50	50A/3P	A-44,46,48	32.8A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
MEDIA CNTR. Rm B129	ROOFTOP	AHU-6	208	3	90	90A/3P	SDP-37,39,41	65.3A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
KITC./CAFE Rm B105	ROOFTOP	* AHU-7	208	3	20	20A/3P	K-37,39,41	10A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
COMP. LAB Rm B130	ROOFTOP	AHU-8	208	3	50	50A/3P	SDP-38,40,42	32.8A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
GYMNASIUM B113	CEILING	AHU-9	208	3	25	25A/3P	SDP-31,33,35	15.7A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
MUSIC Rm B112	CEILING	AHU-10	208	3	20	20A/3P	SDP-25,27,29	3.2A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
LOCKER AREA	ROOFTOP	AHU-11	208	3	20	20A/3P	SDP-19.21.23	4.8A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	4
(Exhaust)	ATTIC	AHU-1	208	3	25	25A/3P	D-78,80,82	5HP/16.7	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	
(Exhaust)	ATTIC	AHU-4	208	3	20	20A/3P	D-92,94,96	3HP/10.6A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	
(Exhaust)	CEILING	AHU-9	208	3	25	25A/3P	SDP-32,34,36	15.7A	HARDWIRE TO DISC. & VFD FURN. WITH UNIT	
MECH Rm C200	ATTIC	B-1	120	1	20	20A/1P	D-85	7.5A	PROVIDE NEMA—1 N—F DISCONNECT	
MECH Rm C200	ATTIC	B-2	120	1	20	20A/1P	D-86	7.5A	PROVIDE NEMA—1 N—F DISCONNECT	
MECH Rm C200	ATTIC	B-3	120	1	20	20A/1P	D-87	7.5A	PROVIDE NEMA-1 N-F DISCONNECT	
MECH Rm C200	ATTIC	BSF-1	120	1	20	20A/1P	D-103	4.4A	PROVIDE NEMA—1 N—F DISCONNECT	
Kitchen Rm B106	Kitchen	CEF-1	120	1	20	20A/1P	K-22	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	6
Rm B110, C116, A113, C131, C146 & C101	1st Floor	CUH-1	120	1	20	20A/1P	RECP AREA	3.2A	HARDWIRE TO DISC. FURN. WITH UNIT	
KINDERG. TLT C118	IN-LINE	EF-1	120	1	20	20A/1P	D-71	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
KINDERG. TLT C119	IN-LINE	EF-2	120	1	20	20A/1P	D-71	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
TLT C123	IN-LINE	EF-3	120	1	20	20A/1P	D-72	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
TLT C124	IN-LINE	EF-4	120	1	20	20A/1P	D-72	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
TLT C127	IN-LINE	EF-4A	120	1	20	20A/1P	D-73	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
TLT C128	IN-LINE	EF-4B	120	1	20	20A/1P	D-73	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
STAFF TLT C114	IN-LINE	EF-5	120	1	20	20A/1P	D-74	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
STAFF TLT C115	IN-LINE	EF-6	120	1	20	20A/1P	D-74	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
BOYS TLT C113	IN-LINE	EF-7	120	1	20	20A/1P	D-75	1/4HP/5.8A	HARDWIRE TO DISC. FURN. WITH UNIT	
NURSE TLT C109	IN-LINE	EF-9	120	1	20	20A/1P	D-76	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
GIRLS TLT B120	ROOF	EF-10	120	1	20	20A/1P	L-65	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
BOYS TLT B117	ROOF	EF-11	120	1	20	20A/1P	L-65	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
GIRL LOC. B 121	ROOF	EF-12	120	1	20	20A/1P	L-66	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
BOYS LOCKER B115	ROOF	EF-13	120	1	20	20A/1P	L-66	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
TLT B109	ROOF	EF-14	120	1	20	20A/1P	L-66	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	9
KITCHEN STORAGE B140	CEILING	EF-15	120	1	20	20A/1P	L-66	1/15HP/2A	HARDWIRE TO DISC. FURN. WITH UNIT	8
B140	CEILING	EF-15	120	1	20	20A/1P	L-66	1/15HP/2A	FÜRN. WITH UNIT	(8

		EG	QUIPI	MEN	t s	CHE	DULE	COI	YT. (X)	
Serves Area/Rm:	Location	SYMBOL	VOLTAGE	PHASE	CIRCUIT AMPS	BREAKER	PANEL CIRCUIT	HP/FLA/ MCA	CONNECTION	
TLT B126 & JAN CLOSET B127	ROOF	EF-16	120	1	20	20A/1P	RECP AREA	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
JAN CLT A107, TLT A108, A111	ROOF	EF-17	120	1	20	20A/1P	RECP AREA	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	9
GIRLS TOILET A112, BOYS TLT A109	ROOF	EF-18	120	1	20	20A/1P	RECP AREA	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
GIRLS TOILET A112, BOYS TLT A109	ROOF	EF-19	120	1	20	20A/1P	RECP AREA	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
ART STORAGE	ROOF	EF-20	120	1	20	20A/1P	RECP AREA	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
KILN HOOD-A130	ROOF	EF-21	120	1	20	20A/1P	RECP AREA	1/20HP/1.6A	HARDWIRE TO DISC. FURN. WITH UNIT	
SCIENCE STORAGE A125	ROOF	EF-22	120	1	20	20A/1P	RECP AREA	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
WELL EQUIPMENT BUILDING-EXH. FAN	IN-LINE	EF-23	120	1	20	20A/1P	'WP' LOCAL PNL	1HP/16A	HARDWIRE TO DISC. FURN. WITH UNIT	5
Kitchen B106	ROOF	KEF-1	120	1	20	20A/1P	K-24	1/2HP/9.8A	HARDWIRE TO DISC. FURN. WITH UNIT	
Kitchen B106	ROOF	KEF-2	120	1	20	20A/1P	K-26	3/4HP/13.8A	HARDWIRE TO DISC. FURN. WITH UNIT	5
MECH. Rm C200	ATTIC	P-1	120	1	20	20A/1P	D-A115	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
MECH. Rm C200	ATTIC	P-2	120	1	20	20A/1P	D-A116	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
MECH. Rm C200	ATTIC	P-3	120	1	20	20A/1P	D-A117	1/6HP/4.4A	HARDWIRE TO DISC. FURN. WITH UNIT	
MECH. Rm C200	ATTIC	P-4	208	3	20	20A/3P	D-105,107,109	3HP/10.6A	PROVIDE NON-FUSED DISCONNECT NEMA-1	7
MECH. Rm C200	ATTIC	P-5	208	3	20	20A/3P	D-106,108,110	3HP/10.6A	PROVIDE NON-FUSED DISCONNECT NEMA-1	7
Corr. B101	ROOF	MAU-1	208	3	20	20A/3P	K-21,23,25	10.8A	HARDWIRE TO DISC. FURN. WITH UNIT	45
ELECTRICAL/MECH. RM A001	BSMT.	SEP-1	120	1	20	20A/1P	A-58	1/2HP/9.8A	PROVIDE NEMA-1 N-F DISCONNECT	
Rm B114,B123,B127, B122,C144	1st Floor	UH-1	120	1	20	20A/1P	RECP AREA	1/8HP/3.5A	PROVIDE NEMA-1 N-F DISCONNECT	
MECH Rm C200	ATTIC	UH-2	120	1	20	20A/1P	D-89	1/3HP/7.2A	HARDWIRE TO DISC. FURN. WITH UNIT	
MECH Rm C201	ATTIC	UH-2	120	1	20	20A/1P	D-90	1/3HP/7.2A	HARDWIRE TO DISC. FURN. WITH UNIT	
MECH Rm C201	ATTIC	GWH-1	120	1	20	20A/1P	D-111	6.2A	HARDWIRE TO DISC. FURN. WITH UNIT	
KITCHEN Rm B106	KITCHEN	GWH-2	120	1	20	20A/1P	K-27	6.2A	HARDWIRE TO DISC. FURN. WITH UNIT	
MECH Rm C201	ATTIC	HWPR-1	120	1	20	20A/1P	D-112	92W	PROVIDE J-BOX	
ADMIN AREA ADDITION	ROOF	ACU-4 (AHU-4)	208	3	45	45A/3P	D-118,120,122	27A	PROVIDE NEMA-3R N-F DISCONNECT	
CONDENSATE HOOD FAN-KITCHEN	ROOF	CHF	120	1	20	20A/1P	K-30	1/2HP 9.8A	PROVIDE NEMA-3R N-F DISCONNECT	10

- 1. DISCONNECT SWITCHES & MOTOR STARTERS LISTED SHALL BE FURNISHED AND INSTALLED
- BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. 2. PROVIDE ANY 120V WIRING REQUIRED TO INTERLOCK EQUIPMENT WITH HVAC CONTROLS.
- ③ THE BRANCH CIRCUIT TO BE WIRED TO EACH UNIT CONDENSER AND FAN COIL IS FED WITH 4 WIRES FROM THE CONDENSER, PER MANUFACTURER RECOMMENDATION. COORDINATE WITH MECHANICAL DRAWINGS DIV.23.
- 4 PROVIDE POWER 120V/1P AND WIRING REQUIRED FOR GFCI RECEPTACLES BY THE AHU'S
- ⑤ INTERCONNECTING WIRE FROM INTERNAL CONTROL CENTER TO KITCHEN EXHAUST FANS KEF-1, KEF-2, CEF-1 SHALL BE BY ELECTRICAL CONTRACTOR. COORDINATE REQUIREMENTS
- WITH MECHANICAL CONTRACTOR DIV. 23.
- 6 PROVIDE WALL SWITCH, COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR DIV. 23.
- ∇FD PR□VIDED BY DIV. 23.

UNITS AS SHOWN IN POWER PLANS.

- (8) INTERLOCK WITH HODD CIRCUITS BY DIV. 26.
- 9 INTERLOCK WITH OCCUPANCY SENSORS BY DIV. 26.
- <u>ALTERNATE "AHU-7" IMPORTANT NOTE:</u>
- * AHU-7 ALTERNATE, PROVIDED BY DIV. 23, MCQUAY MANUFACTURER HAS 2 POINT OF CONNECTION FOR SUPPLY (5HP) AND EXHAUST FAN (5HP) PER MECHANICAL SCHEDULE DRAWING M401. EC SHALL PROVIDE, BASED ON MANUFACTURER REQUIREMENTS IN THE SCHEDULE, 125A/3P CIRCUIT BREAKER AND ASSOCIATE WIRES AND CONDUIT FOR PROVIDING 208V/30 VOLTAGE TO THE UNIT FROM THE KITCHEN PANEL 'K'.



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ISSUED FOR BIDDING NOV. 26, 2013 --

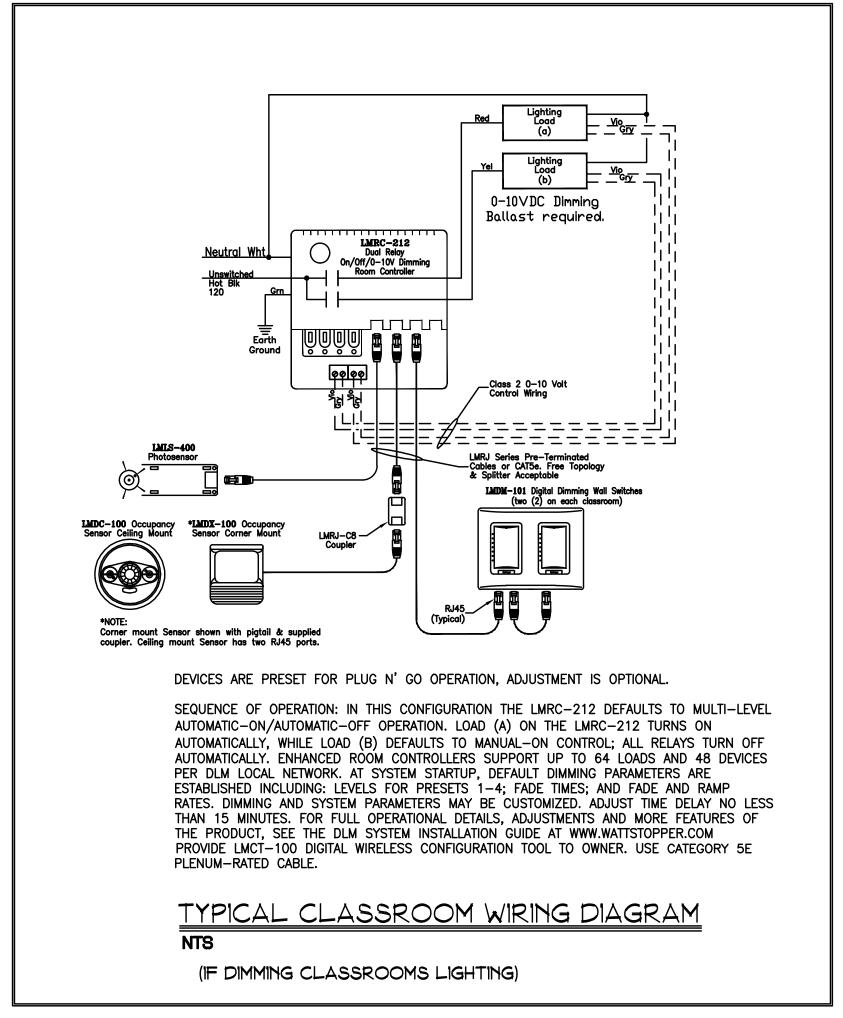
EQUIPMENT SCHEDULE

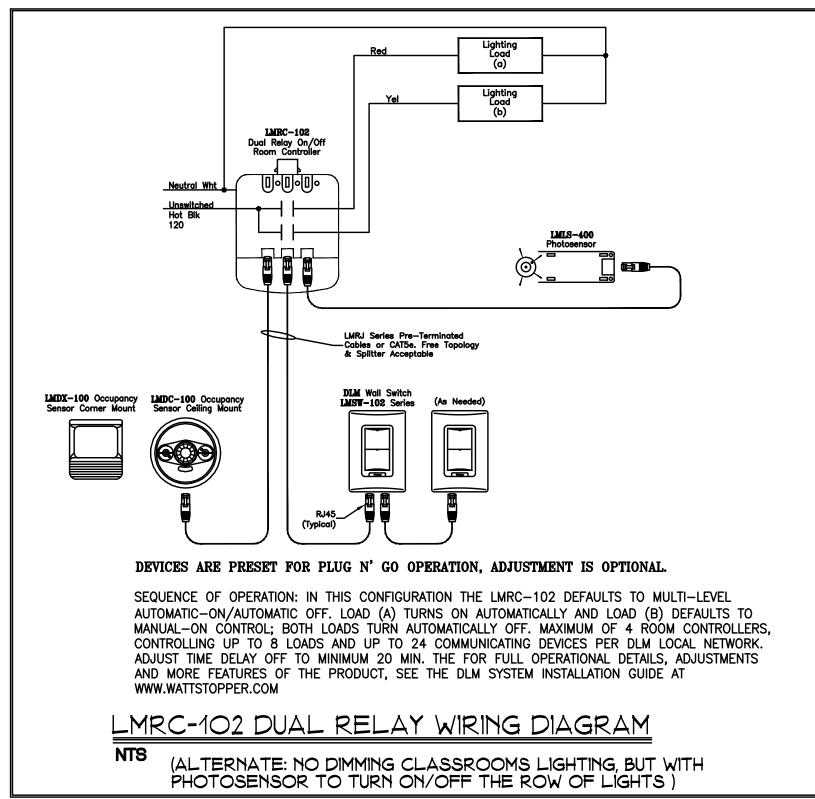
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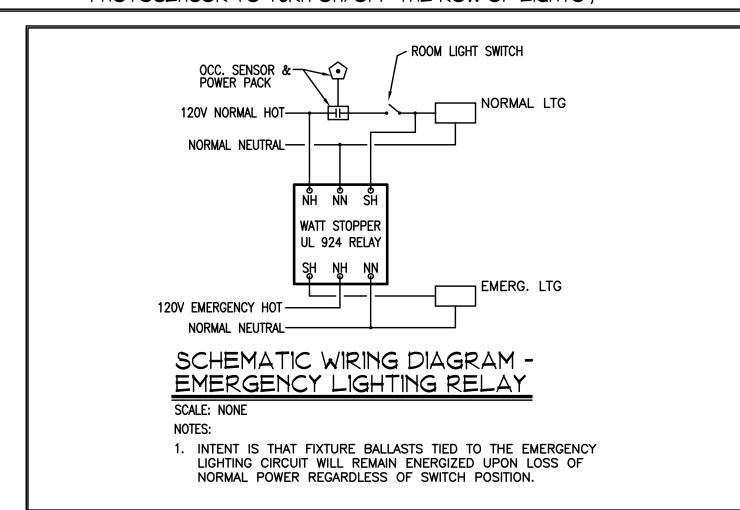
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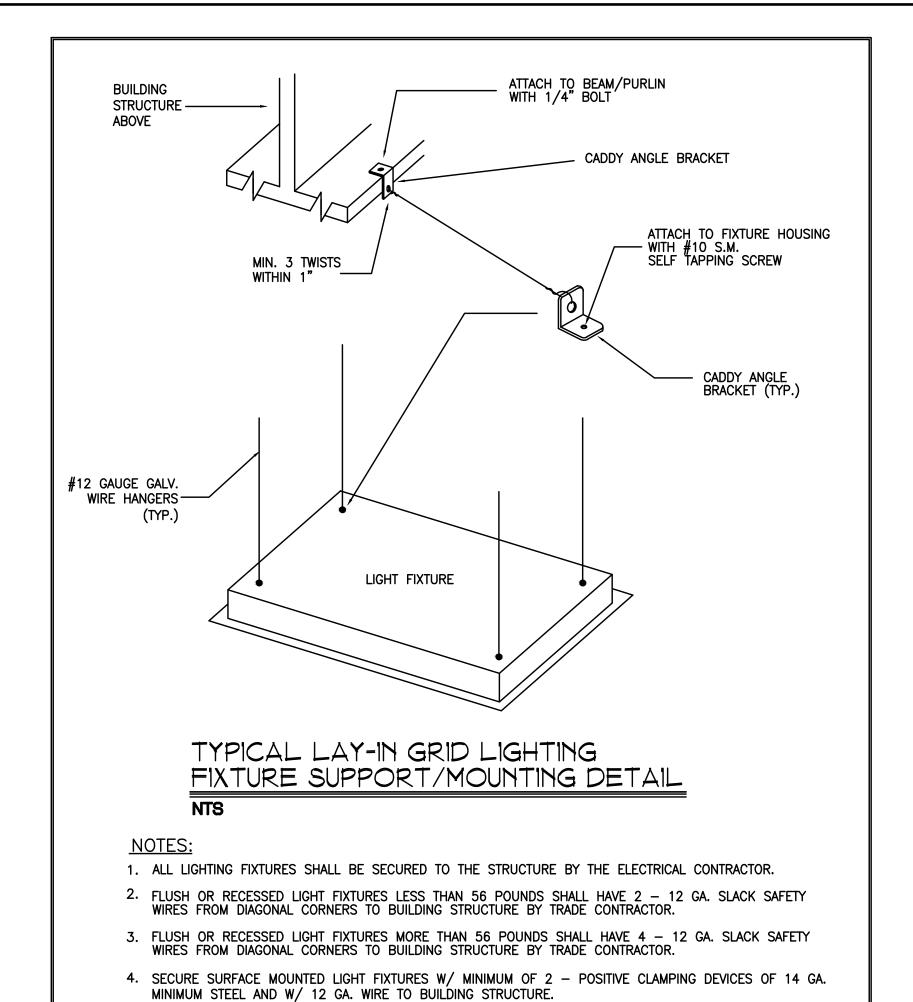
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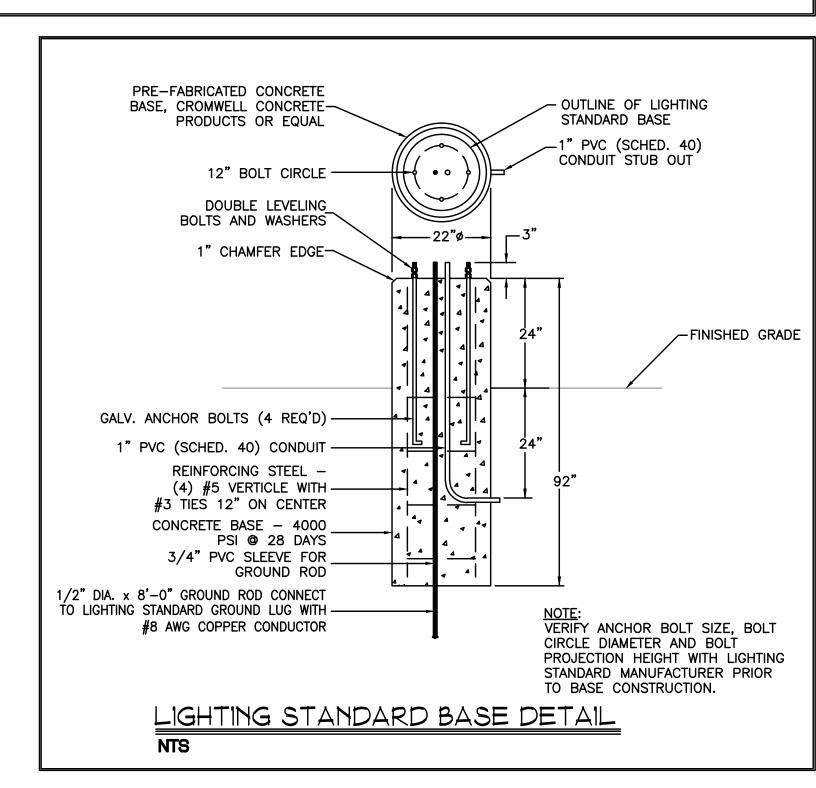


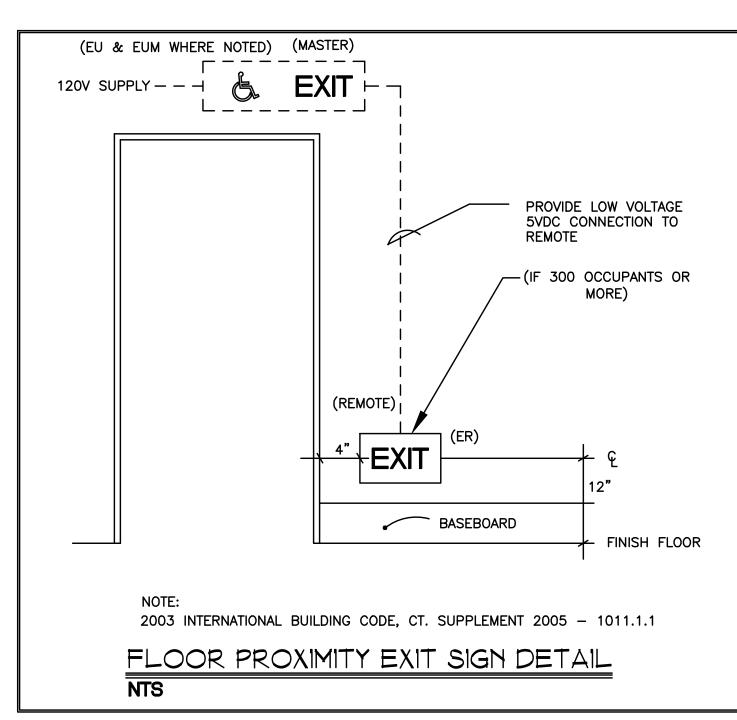


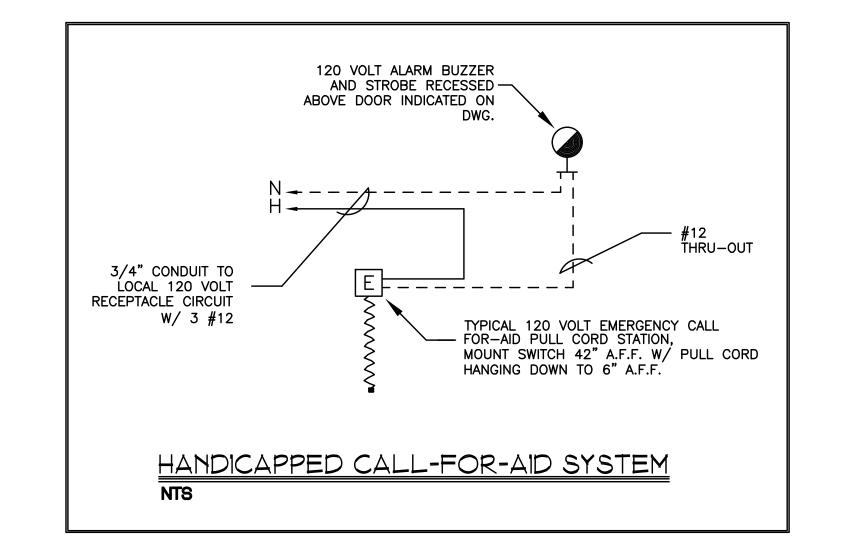


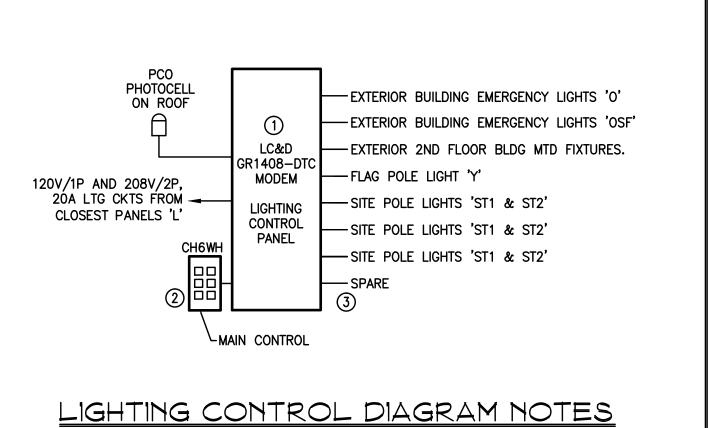






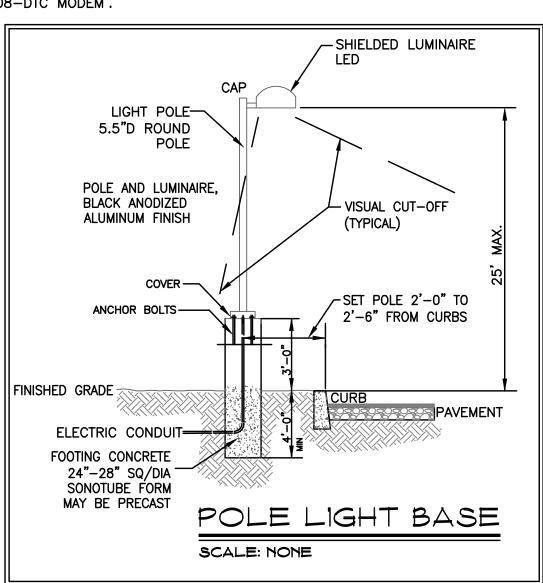


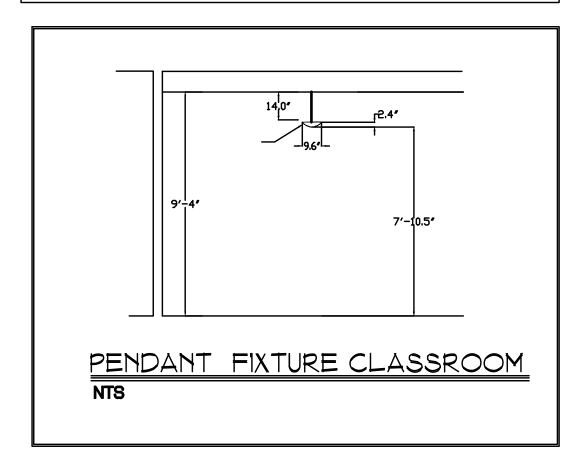




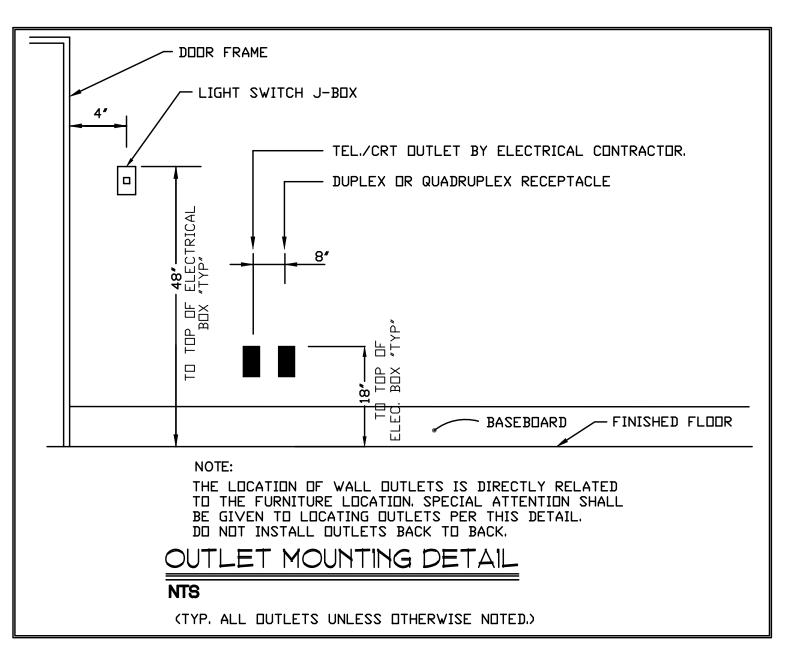
- (1) INSTALL NEW MAIN LIGHTING CONTROL PANEL IN BOILER ROOM. FURNISH WITH DTC MODEM OPTION, HINGED DOOR AND SURFACE PANEL. PROVIDE TELEPHONE LINE TO TELEPHONE BOARD FOR MODEM OPERATION.
- (2) PROVIDE PROGRAMMABLE MULTI-BUTTON SWITCHES FOR MANUAL CONTROL OF LIGHTING. SWITCH LOCATIONS SHALL BE COORDINATED IN FIELD.
- (3) PROVIDE PROGRAMMABLE RELAY AND INDEPENDENT CIRCUIT WIRING FOR EACH LIGHTING LOAD SHOWN. NOTE THAT AREAS WITH EMERGENCY LIGHTING WILL REQUIRE UNSWITCHED

ELECTRICAL CONTRACTOR SHALL INSTALL LIGHTING CONTROL PANEL LC&D. USE COMPANY LC&D: MODEL 'GR1408-DTC MODEM'.





INCLUDE IN THE BASE BID THE PROVISION OF J-HOOK SUPPORTS FOR EXISTING FIBER OPTIC, DATA AND COMMUNICATION CABLING THAT EXISTS UNSUPPORTED ABOVE CEILINGS WHICH ARE BEING REMOVED. THE WORK WILL INCLUDE THE PROVISION OF UP TO 2 ROWS OF J HOOKS LOCATED EVERY 5 FEET THROUGHOUT ALL CORRIDORS, IF NEED IT. ALL LOOSE CABLING ABOVE THE CEILING WILL BE BUNDLED (AS MUCH AS LENGTHS PERMIT) AND ATTACHED TO STRATEGICALLY PLACED J HOOKS TO FACILITATE THE SUSPENSION OF THE EXISTING CABLES OFF OF THE CEILING GRID.



MOUNTING HEIGHTS (UNLESS OTHERWISE NOTED)

18" AFF TO TOP OF THE BOX "TYP" 48" AFF TO TOP OF THE BOX "TYP" EM Stop SWITCHES 48" AFF TO TOP OF THE BOX "TYP" 7'-6" AFF "TYP" CLOCK DUTLETS 7'-6" AFF "TYP" FA STROBES 48" AFF TO TOP OF THE BOX "TYP" 48" AFF TO TOP OF THE BOX "TYP" 6'-7" MAXIMUM HEIGHT TO THE CENTER OF THE PANELBOARDS GRIP OF THE OPERATING HANDLE OF THE

SWITCH OR C/B, IN ITS HIGHEST POSITION,

AFF, PER NEC 2005 "240.24 (A)", "TYP"

INSTALLED BY TSENSING HEAD STATION. MOUNT CONTRACTOR TO J-BOX ABOVE CEILING AT 4' MINIMUM FROM THE SENSING HEAD. RED +24 VDC BLACK COMMON BLUE CONTROL OUTPUT ^L ROOM SWITCH --N --- FROM BALLAST(S) APPLIES TO BI-LEVEL ∠ROOM SWITCH SWITCHING SYSTEM OCCUPANCY SENSOR SCHEMATIC WIRING DIAGRAM

OCCUPANCY SENSORS DETAILS

WALL MOUNTED USE:

WATTSTOPPER 'DW-100', DUAL TECHNOLOGY: (ULTRASONIC AND PIR) OR EQUAL.

CEILING MOUNTED USE:

WATTSTOPPER 'LMUC-100' W/'LRMC100 SERIES ROOM CONTROLLER' (IN BATHROOMS) OR WATTSTOPPER 'LMDC-300' W/'LRMC100 SERIES ROOM CONTROLLER' (DUAL TECHNOLOGY) (IN CONFERENCE ROOMS, LUNCH ROOMS, ART, OFFICES) OR EQUAL.

CORNER MOUNTED ON CEILING:

WATTSTOPPER 'LMDX-100' W/'LMRC212 ROOM CONTROLLER' (IN CLASSROOMS AND COMPUTER CLASSROOMS) OR EQUAL. TIME DELAY NO LESS THAN 15 MINUTES AND SET 30 MINUTES IN COMPUTER CLASSROOMS.

WATTSTOPPER 'LMPC-100-5' EXTENDED HEIGHT PIR SENSOR AND KEYPAD TYPE 'LMSW-100' OR EQUAL. MOUNT SENSOR AT LEAST 6' AWAY FROM AIR SUPPLY AND AVOID OBSTACLES THAT BLOCK SENSOR'S LINE-OF-SIGHT (20' MOUNTING HEIGHT). USE LMRC-102 CONTROLLER.

- 1. MANUFACTURER TO PROVIDE A SENSOR LAYOUT SUBMITTAL DURING THE SUBMITTAL PROCESS.
- 2. THE OCCUPANCY SENSORS SHOULD BE SET UP AS VACANCY SENSORS (MANUAL ON/AUTO OFF) PER ASHRAE 2010 REQUIRING. FINAL TEST SHOULD BE PERFORMED WITH OWNER IN FIELD.

CATY SYSTEM: (TV) CATV

CONTRACTOR SHALL PROVIDE 4" J-BOX WITH JACKS AND 3/4"C TO ACCESSIBLE CEILING SPACE AT EACH DROP LOCATION. PROVIDE COAX CABLE RG6 WITH CONNECTORS AT EACH END. ALL HOMERUNS SHALL GO TO CENTRAL LOCATION. COORDINATE WITH OWNER FOR EXACT LOCATION.

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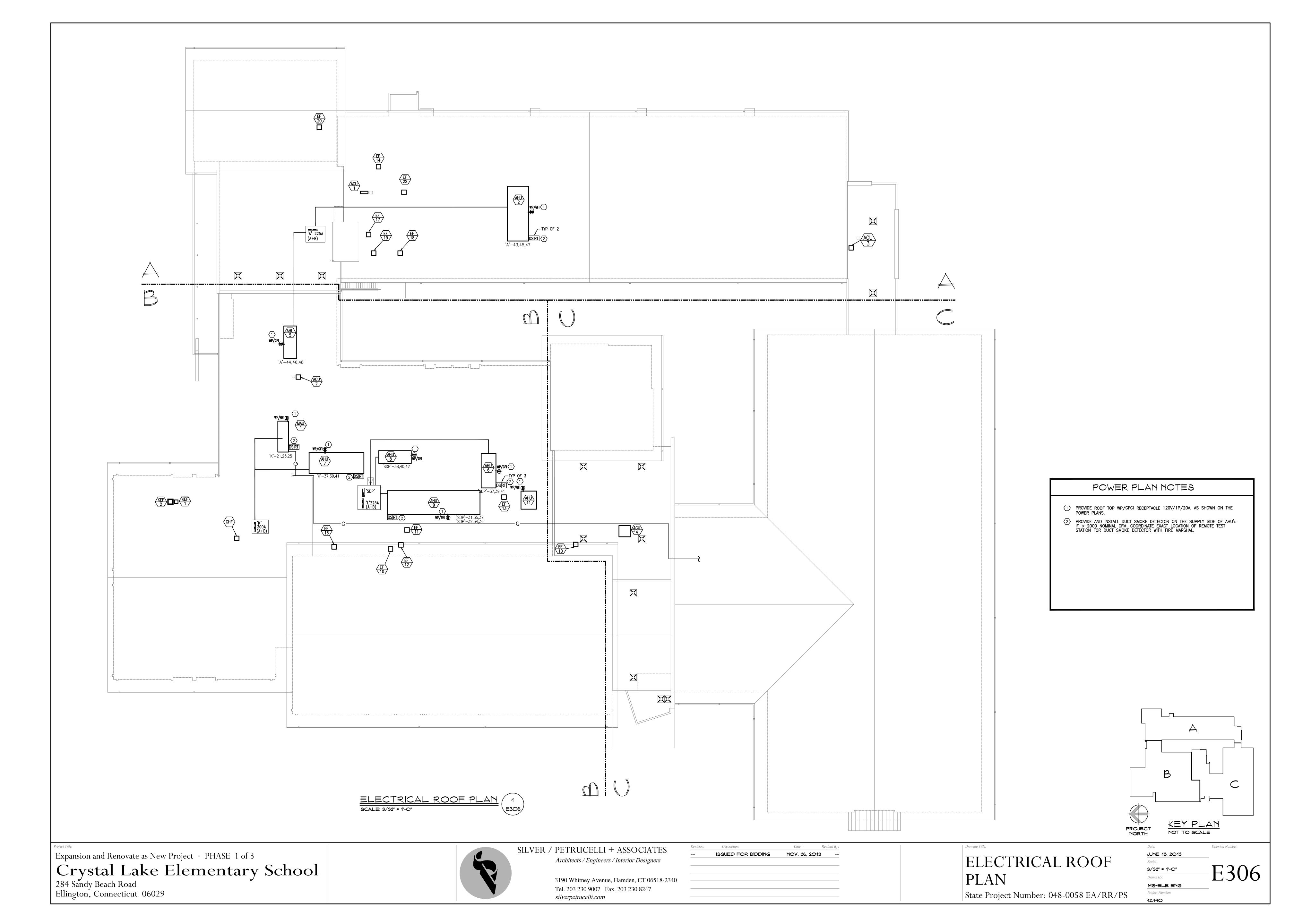
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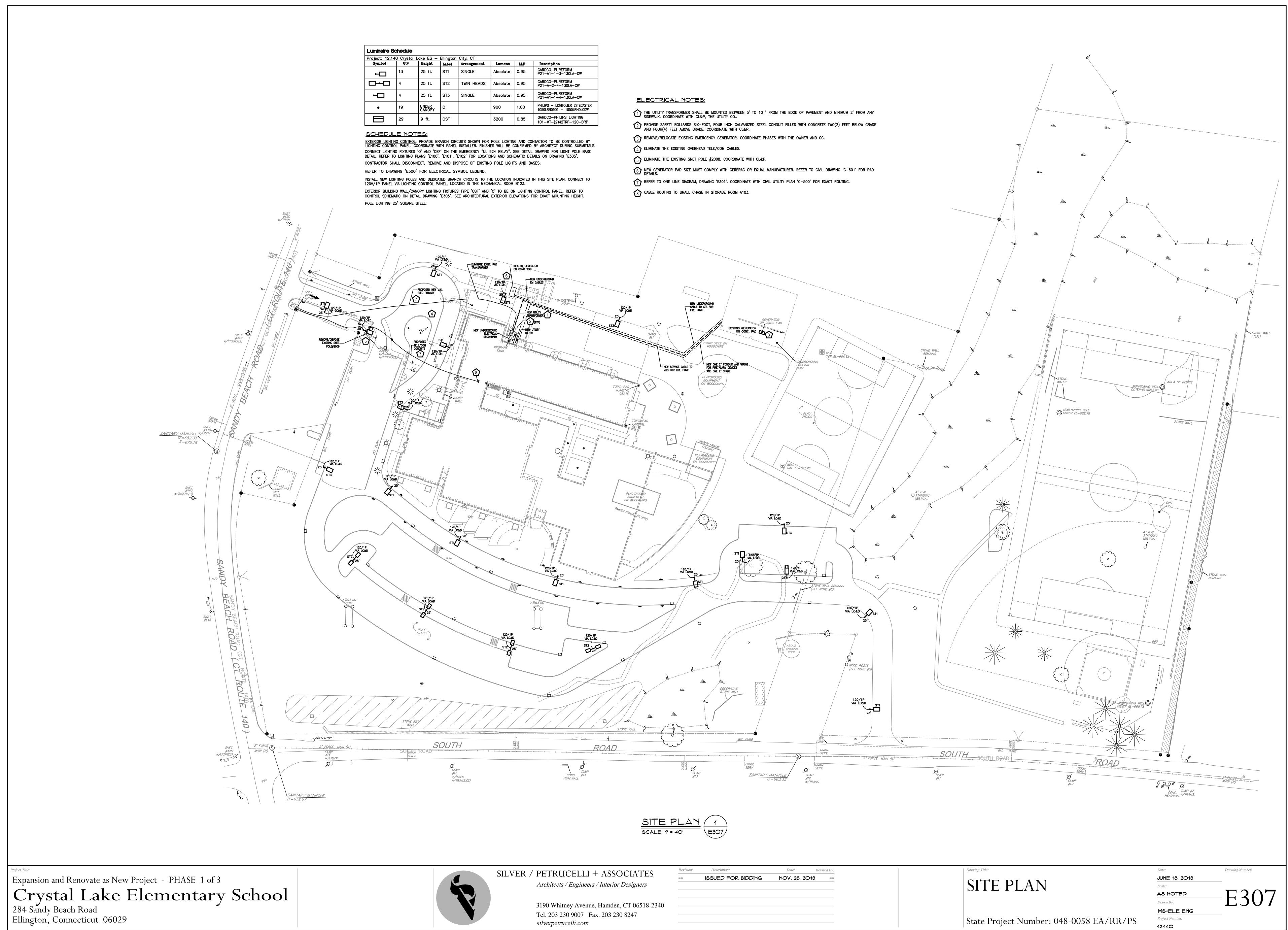
DETAILS

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